



- Catch Basins
- Culverts
- Drain Lines
- Active
- Missing
- Abandoned
- Drain Manholes
- Property Lines
- Scanned Documents
- Gate Card
- Linen Plan
- Front Yard Plan
- Subdivision Plan
- Record Plan
- As-Built Plan
- Site Plan
- Dead
- Stormwater Outfalls

Horizontal Datum: MA Stateplane Coordinate System,
Zone 4151, Datum: NAD83, Feet

Planimetric base map features compiled at 1"=40' and
1"=100' scale from April, 1994 Aerial Photography
Aerial Photography, April, 2004. Permits compiled through
a "best fit" methodology to match the base map; revisions
are ongoing.

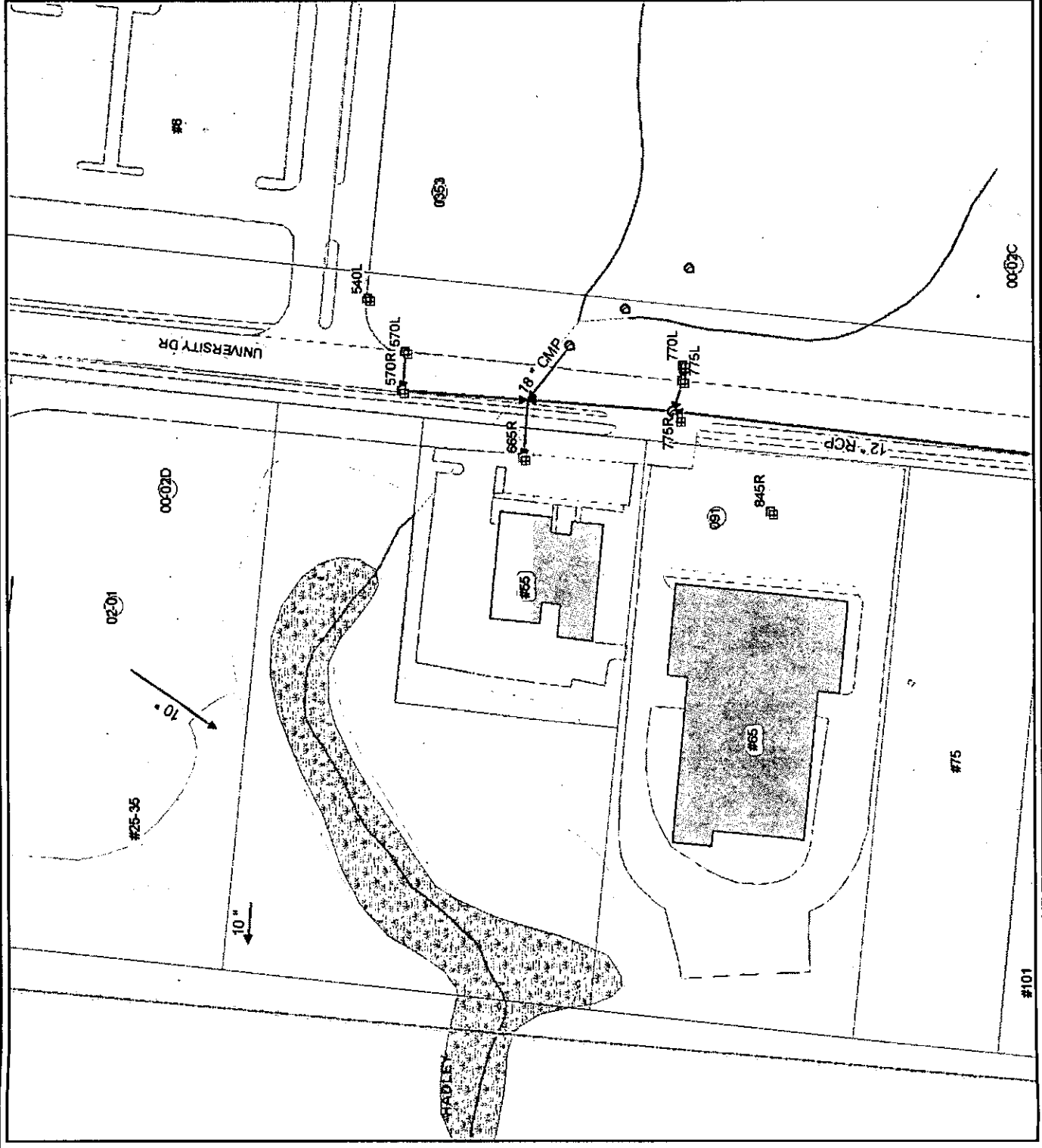
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1" = 100 ft



The Bays



The Fungas



- Catch Basins
- Culverts
- Drain Lines
- Easement
- Filling
- Abandoned
- Drain Manholes
- Property Lines
- Sealed Documents
- Catch Basin
- Drain Manhole
- Easement Plan
- Filling Plan
- Subdivision Plan
- Record Plan
- As-Built Plan
- Site Plan
- Dead
- Stormwater Outfalls

Horizontal Datum: MA Stateplane Coordinate System,
Zone 4151, Datum: NAD83, Feet

Planimetric base map features compiled at 1"=40' and
1"=100' scale from April, 1999 Aerial Photography.
Aerial Photography: April, 2004. Parcels compiled through
a "best-fit" methodology to match the base map; revisions
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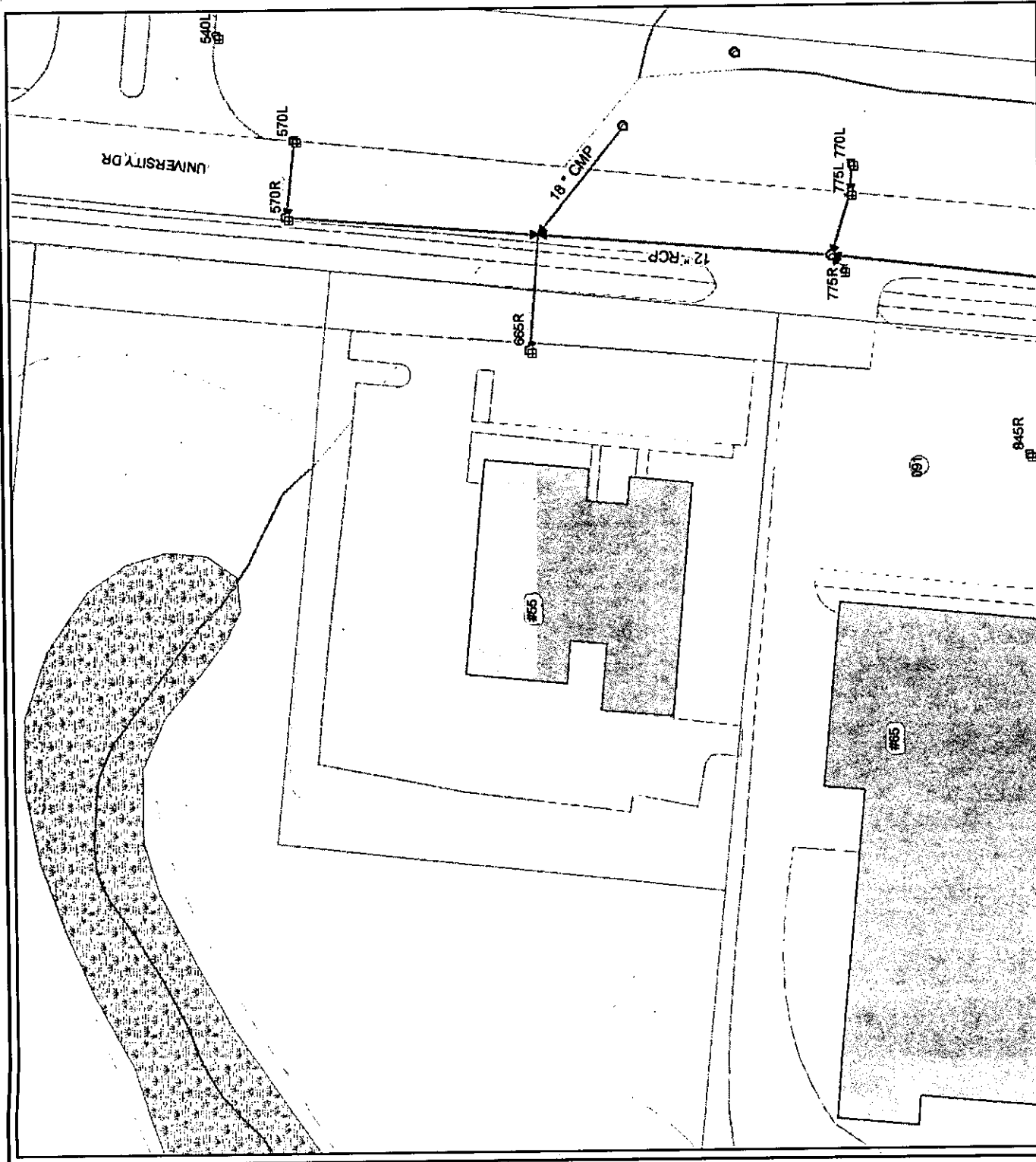
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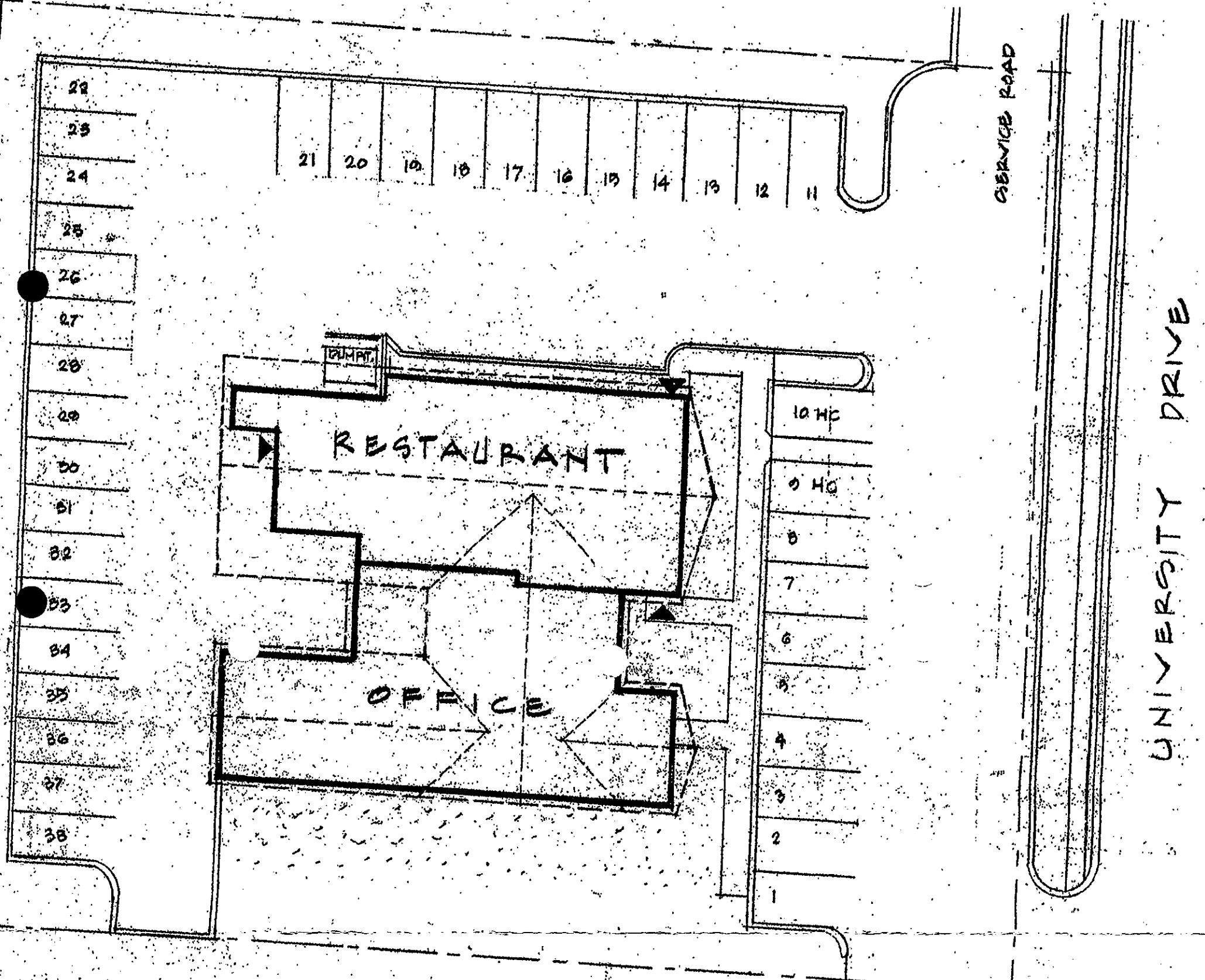
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1" = 50 ft

Amherst GIS Viewer September 20, 2007





BUILDING CODE AND ZONING INFORMATION

SITE AREA — 29,600
 ZONE — B-L (LIMITED BUSINESS)
 USE GROUP CLASSIFICATION — B + A3 (MIXED USE 213.1)
 TYPE OF CONSTRUCTION — 4B

PARKING:

BUILDING AREA

OFFICE (B) — 2,611 SF.
 RESTAURANT (A3) — 2,683 SF.

SPACES REQUIRED

OFFICE (B) — 14 (1 PER 200 SF)
 RESTAURANT (A3) — 21 (1 PER 4 SEATS — 85 SEATS)
 HC SPACES — (2 INCLUDED IN ABOVE)
 - TOTAL REQD. — 35
 TOTAL PROVIDED — 35

SITE PLAN

SCALE

1" = 20'

2089, 8/19/99
 [Signature]
 [Signature]
 [Signature]

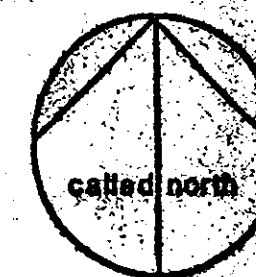
Approved March 9, 1994
 [Signature]

By M. Wey
 Lucie L. Landozski

Size of H.C. BATH ROOM & layout FOR SINK & Toilets & 5' thru around area

Floor	
Walls	

GILLEN ARCHITECTS
401 Main Street
Amherst, Massachusetts 01002
Tel 413-253-2528
Fax 413-256-1553



55
University
Driver
Amherst

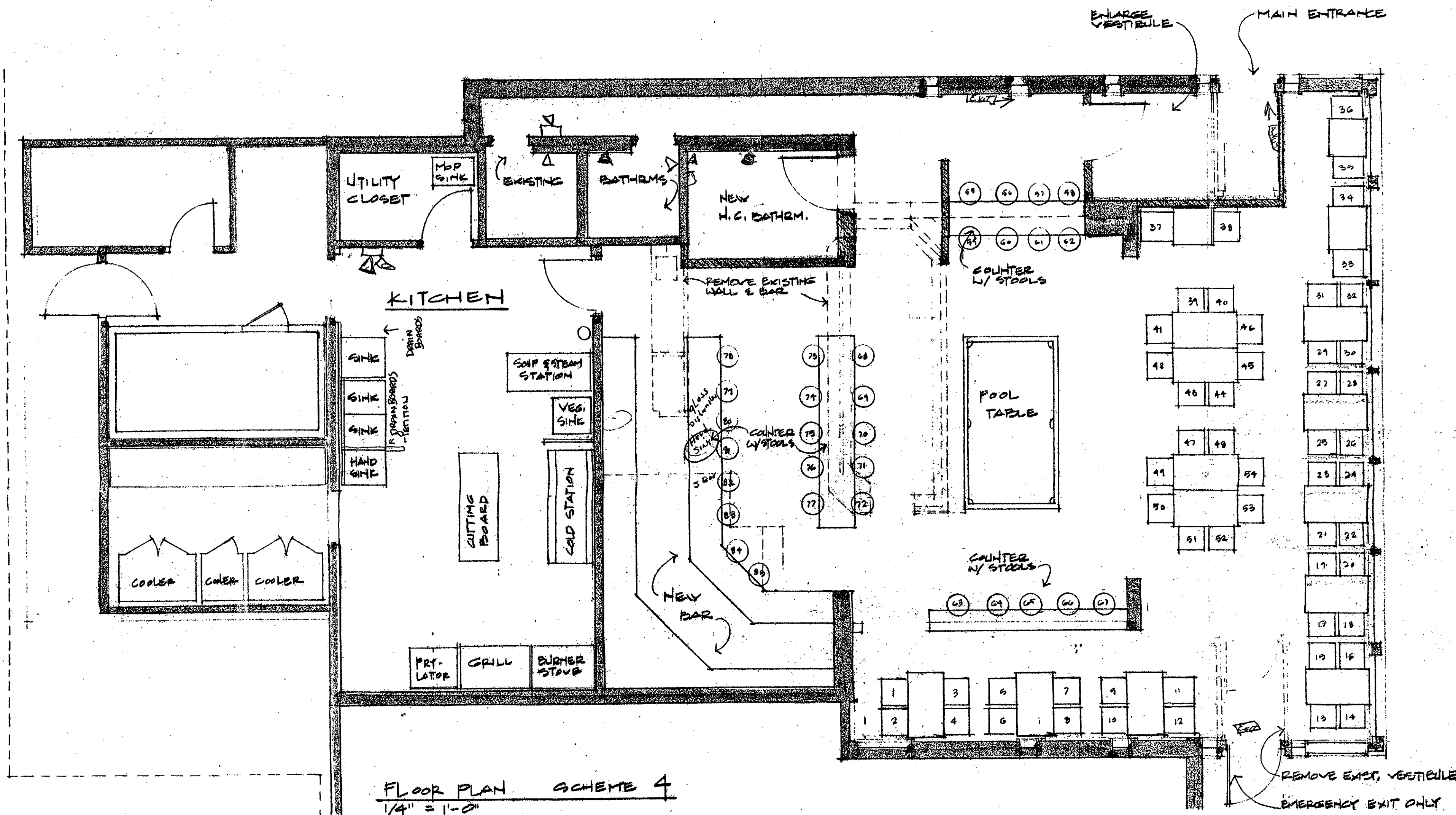
Revisions	Date
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Date 3.8.94

Scale $1/4" = 1' - 0"$

Project No. 96097

Drawn By LF



FLOOR PLAN SCHEME 4
1/4" = 1'-0"

SEATS	54
STOOLS	31
TOTAL	85
EMPLOYEES	14
TOTAL	99

POOL TABLE SHOWN IS A MID SIZE STANDARD 5'-6" X 9'-9"

Approved March 9, 1994

Alice Eastern

Sig M. Wolf
Susan Levandowski

SPECIAL PERMIT APPLICATION

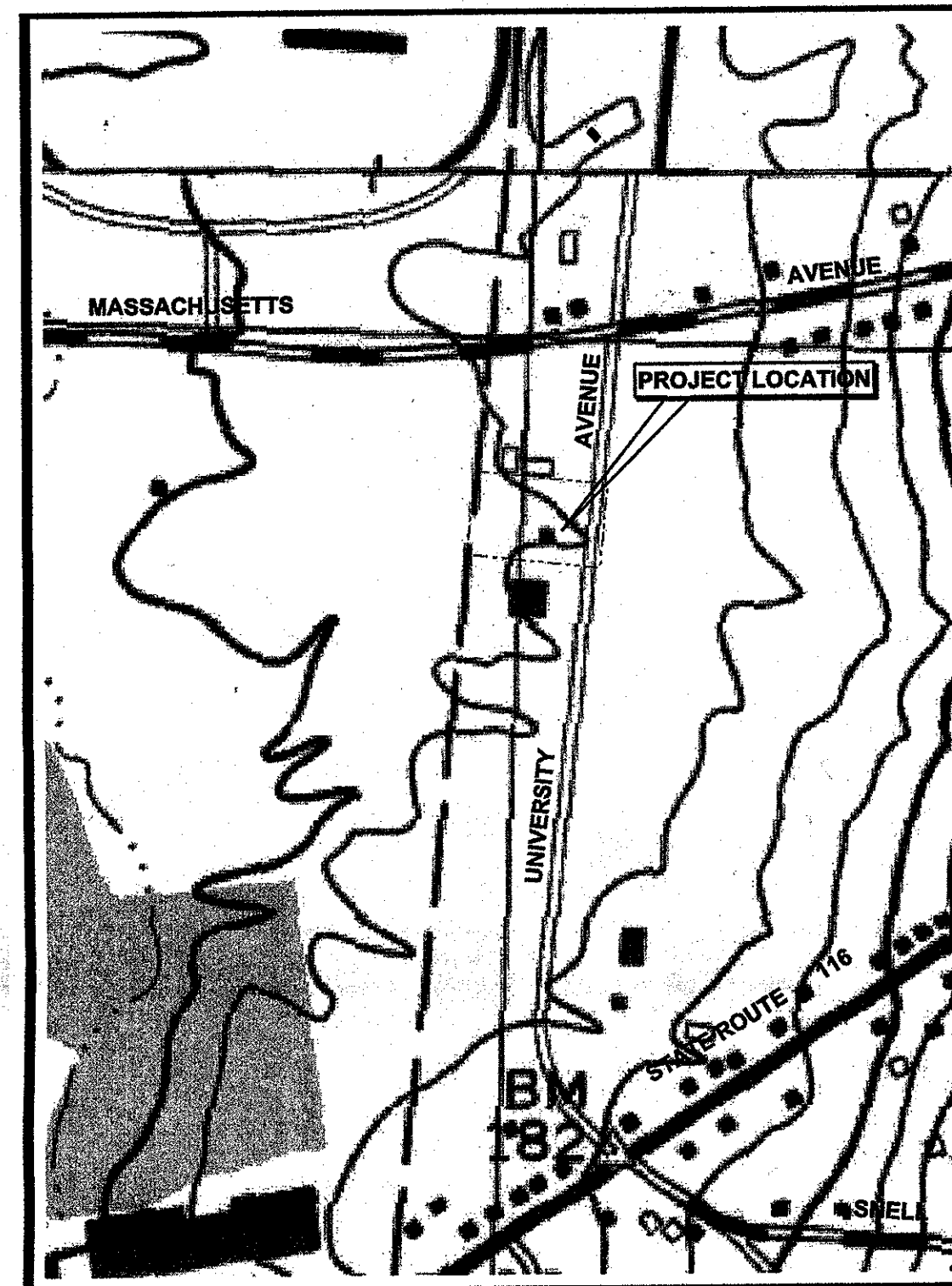
for

The Hangar Pub & Grill - Parking Improvements 55 University Drive, Amherst, Massachusetts

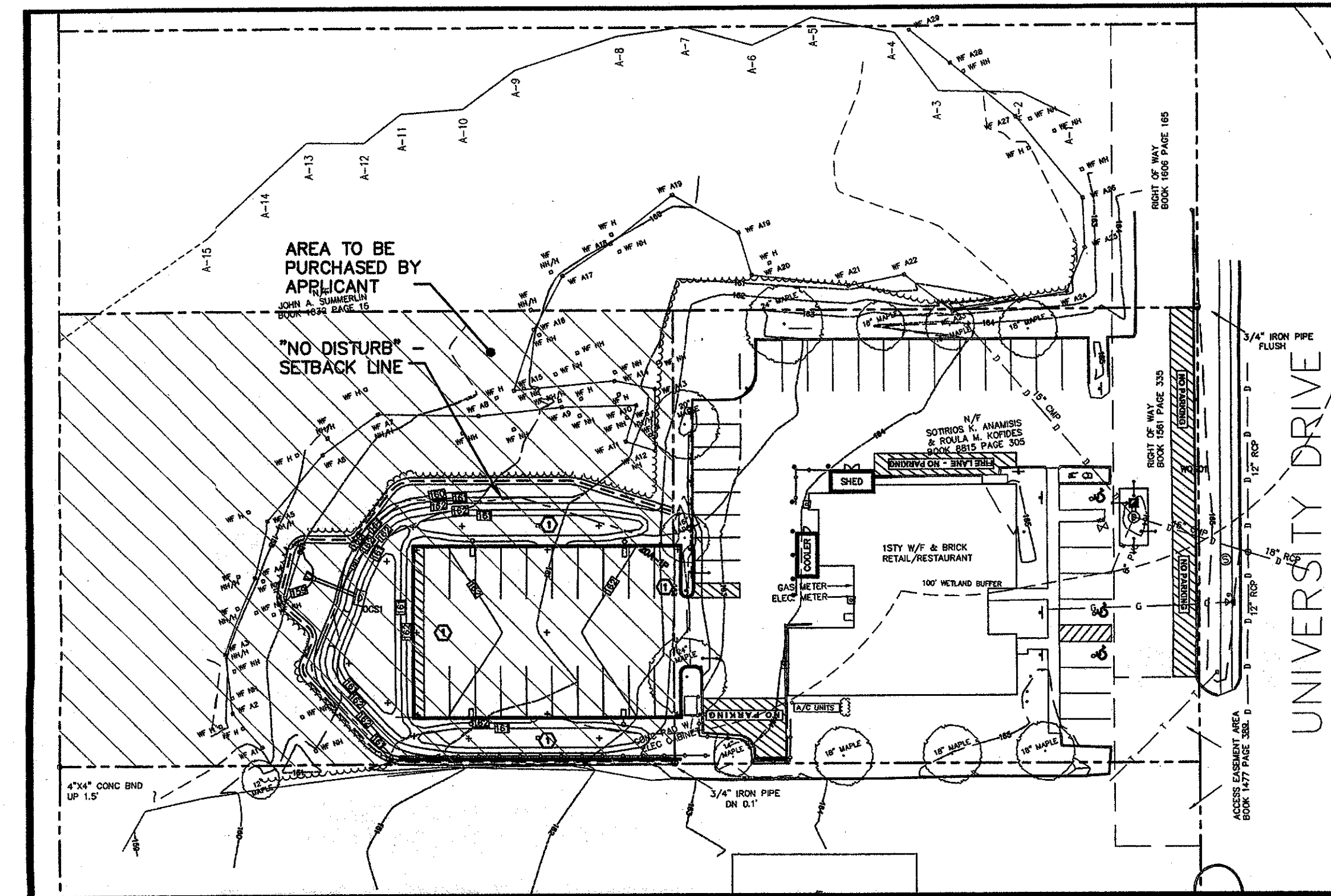
Revised per Town Comments: December 18, 2007
Special Permit / NOI Submission Date: July 11, 2007
Revised per Town Comments: July 31, 2007
Revised per Town Comments: September 12, 2007
Revised per Town Comments: November 19, 2007

Drawing List:

Sheet No.	Drawing Title
C-1.0	Site Demolition, Erosion Control and Sedimentation Control Plan
C-2.0	Site Materials and Layout Plan
C-3.0	Site Utility and Site Lighting Photometric Analysis Plan
C-4.0	Site Grading and Drainage Plan
C-5.0	Soil Erosion and Sediment Control Specifications, Narrative and Details
C-5.1	Site Details



Locus Plan
SCALE: 1" = 1000'



OVERALL SITE PLAN -
PROPOSED SITE DEVELOPMENT
SCALE: 1" = 40'

CIVIL SYMBOL LEGEND

	FIRE HYDRANT
	VALVE
	STORM DRAINAGE
	WATER DISTRIBUTION
	SANITARY SEWERAGE
	PRIMARY ELECTRIC (CONCRETE ENCASED)
	SECONDARY ELEC (CONCRETE ENCASED)
	TELECOMMUNICATIONS (CONCRETE ENCASED)
	CONDUIT REFERENCE SYMBOL
	CHAIN LINK FENCE
	8' (H) WOOD FENCE PER OWNER'S DIRECTION
	ECO SILT BARRIER
	PROPOSED CONTOUR
	PROPOSED SPOT ELEVATION
	SANITARY MANHOLE
	STORM DRAINAGE MANHOLE
	CATCH BASIN
	YARD DRAIN
	FLUSH
	DIRECTION OF WATER FLOW
	TRANSFORMER OR SWITCH
	DETAIL REFERENCE NUMBER SEE THIS DETAIL DRAWING
	PAVEMENT SAW CUT LINE
	BITUMINOUS CONCRETE CURB
	SITE LIGHTING POLE AND FIXTURE
	WALL LIGHTING FIXTURE

CIVIL GENERAL NOTES:

- PRIOR TO COMMENCING CONSTRUCTION NOTIFY "CALL BEFORE YOU DIG" FOR FIELD LOCATION OF AND MARKING OF SUBSURFACE UTILITIES.
- ALL CONSTRUCTION METHODS SHALL CONFORM TO THE FOLLOWING:
 - STATE OF MASSACHUSETTS HIGHWAY DEPARTMENT MATERIAL AND INSTALLATION SPECIFICATION OF EACH UTILITY COMPANY.
 - SPECIFIC TOWN OF AMHERST REQUIREMENTS
 - STATE OF MASSACHUSETTS HIGHWAY DEPARTMENT STORMWATER MANAGEMENT FOR HIGHWAYS, BRIDGES AND WATERWAYS
 - THE DRAWINGS AND SPECIFICATIONS.
- ESTABLISH AND MAINTAIN AT LEAST TWO (2) BENCHMARKS ON SITE FOR VERTICAL AND HORIZONTAL REFERENCE.
- SAFETY ISSUES & HOURS OF OPERATION ARE THE RESPONSIBILITY OF THE CONTRACTOR AND ARE TO BE COORDINATED AND APPROVED BY THE OWNER.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO DEVELOP THE CONSTRUCTION AS-BUILT PLANS. AS-BUILT PLANS SHALL SHOW LOCATION AND ELEVATION OF CONSTRUCTED STRUCTURES, PIPING AND CONDUITS. CONTRACTOR TO PROVIDE RECORD DRAWINGS TO THE OWNERS AS REQUIRED AT THE END OF THE PROJECT. REFER TO THE SPECIFICATION FOR REQUIREMENTS.
- ALL EXISTING SITE UTILITIES WHICH ARE NOT SHOWN ON THE PLANS OR ARE TO REMAIN IN SERVICE SHALL NOT BE INTERRUPTED FROM CONTINUOUS OPERATION. CONTRACTOR TO NOTIFY THE ENGINEER OF ANY CONFLICTS OR CONCERNS. EXISTING UTILITIES TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION.
- NO SALT SHALL BE USED FOR THE DE-ICING OF THE NEW PARKING AREA.
- ALL FILL PLACED WITHIN ANY JURISDICTIONAL AREA SHALL CONSIST OF CLEAN FILL AND SHALL MEET THE REQUIREMENTS OF MASSACHUSETTS HIGHWAY DEPARTMENT, STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES, ITEM 150-ORDINARY BORROW (SECTION M 1.01.0)
- THE OWNER SHALL FILE A COPY OF INSPECTION AND MAINTENANCE CHECKLIST ANNUALLY (WITHIN THIRTY DAYS); AS REQUIRED BY THE TOWN ENGINEER AND CONSERVATION COMMISSION.
- ALL CONSTRUCTION ACTIVITY SHALL OCCUR BETWEEN JULY 1ST AND DECEMBER 1ST.
- THE CONTRACTOR SHALL COMPLY WITH ALL ITEMS OF THE LOCAL CONSERVATION COMMISSIONS "ORDER OF CONDITIONS."

Record Owner/Applicant:

Sotorios Anamisis
7 Newton Street
Belchertown, Massachusetts 01007

Prepared by:



The
Berkshire
Design
Group, Inc.

Landscape Architecture
Civil Engineering
Planning
Urban Design

4 Allen Place, Northampton, MA 01060 • (413) 582-7000
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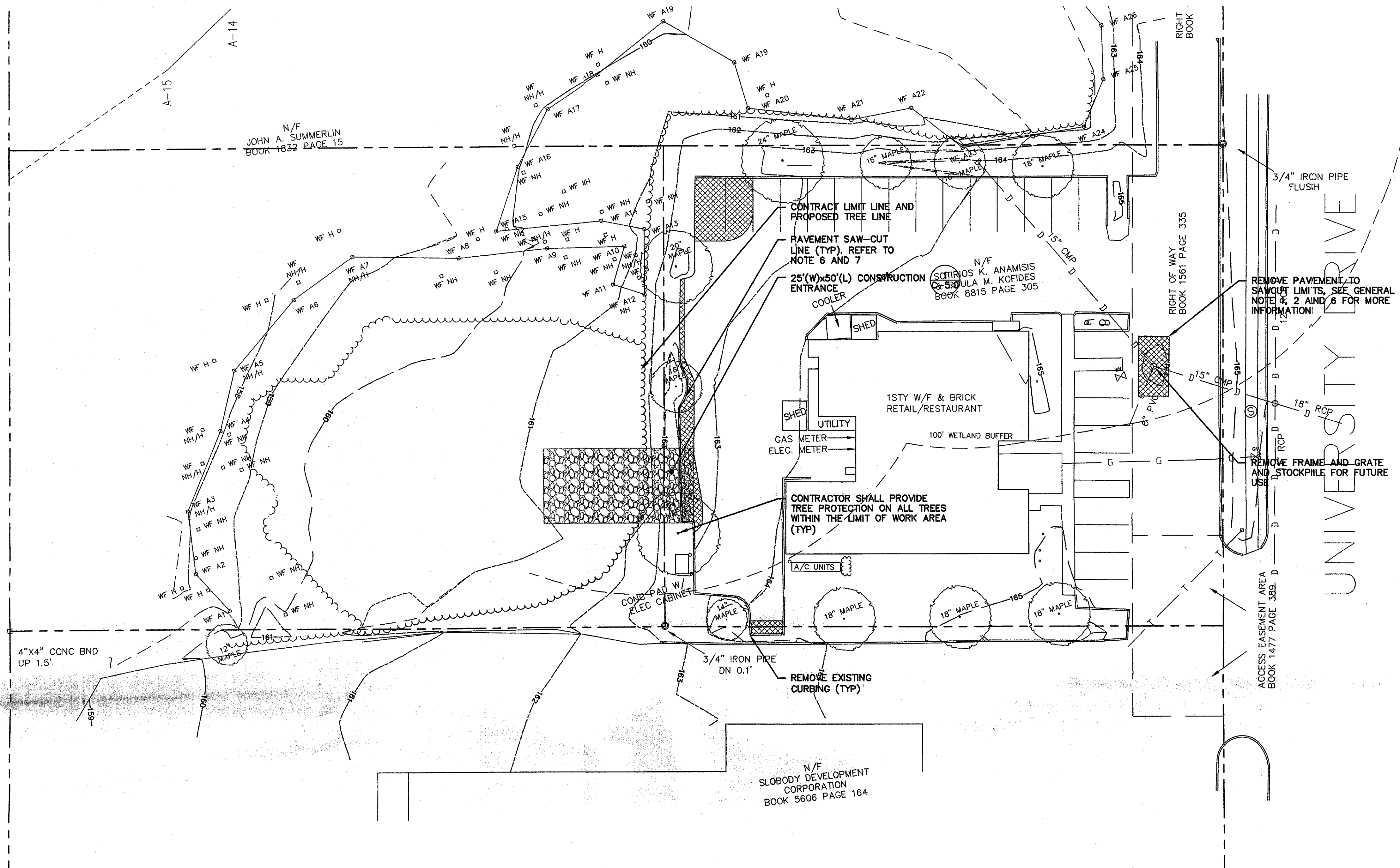
CIVIL ABBREVIATIONS LEGEND

AC	ACRE	DET	DETAIL	GALV	GALVANIZED	O/C	ON CENTER	SS	STAINLESS STEEL
AD	AREA DRAIN	DI	DUCTILE IRON	GC	GENERAL CONTRACTOR	OD	OUTSIDE DIAMETER	SD	STORM DRAINAGE
AFF	ABOVE FINISH FLOOR	DIA	DIAMETER	GFI	GROUND FAULT INTERRUPTER	P	POLE/PHASE	STA	STATION
ALT	ALTERNATE	DIAG	DIAGONAL	GND	GROUND	PC	POINT OF CURVATURE	T & B	TOP AND BOTTOM
ARCH	ARCHITECTURAL	DIM	DIMENSION	HDPE	HIGH DENSITY POLYETHYLENE	PE	POUND PER SQUARE INCH	TEL	TELEPHONE
BC	BOTTOM OF CURB	E	EAST	HORIZ	HORIZONTAL	PSI	POINT OF VERTICAL TANGENCY	TF	TOP OF FRAME
BIT	BITUMINOUS	EJ	EXPANSION JOINT	ID	INSIDE DIAMETER	PT	POLYVINYL CHLORIDE	TW	TOP OF WALL
BLDG	BUILDING	ELEV	ELEVATION	IN	INCH OR INCHES	QTY	QUANTITY	TYP	TYPICAL
BM	BENCH MARK	ELEC	ELECTRIC	INV	INVERT	R	RADIUS	UG	UNDERGROUND
BOT	BOTTOM	EOP	EDGE OF PAVEMENT	JOINT	JOINT	RCP	REINFORCED CONCRETE PIPE	VERT	VERTICAL
BSMT	BASEMENT	EQ	EQUAL	LP	LOW POINT	RGS	RIGID GALVANIZED STEEL	VIF	VERIFY IN FIELD
C	CENTERLINE	EW	EACH WAY	MAX	MAXIMUM	REIN	REINFORCED	W	WEST/WATER SERVICE
CAL	CALIPER	EX	EXISTING	MECH	MECHANICAL	ROW	RIGHT OF WAY	WP	WORKING POINT
CB	CATCH BASIN	EXT	EXTERIOR	MH	MANHOLE	S	SOUTH	WWF	WELDED WIRE FABRIC
CJ	CONTROL JOINT	FD	FOOTING DRAIN	MIN	MINIMUM	SAN	SANITARY	YD	YARD DRAIN
CLL	CONTRACT LIMIT LINE	FDN	FOUNDATION DRAIN	MISC	MISCELLANEOUS	SDMH	STORM DRAINAGE MANHOLE		
CMP	CORRUGATED METAL PIPE	FF	FINISH FLOOR	N	NORTH	SF	SQUARE FEET		
CMU	CONCRETE MASONRY UNIT	FM	FORCE MAIN	NA	NOT APPLY	SE	SECONDARY ELECTRIC		
CO	CLEAN OUT	F	FIRE SERVICE	NIC	NOT IN CONTRACT	SMH	SANITARY MANHOLE		
CONC	CONCRETE	FT	FEET	NO	NOT TO SCALE	SPEC	SPECIFICATIONS		
CONST	CONSTRUCTION	FTG	FOOTING	NTS		SQ	SQUARE		
CU FT	CUBIC FEET	GAL	GALLON						

SITE DATA TABLE		
ZONE: B-L	REQUIRED	PROPOSED
LOT AREA	20,000 SF	64,289
LOT FRONTAGE	125 FT	161.50 ± FT
LOT ATTRIBUTES:		
BLDG. COVERAGE	35 %	8.34 ± %
MAX LOT COVERAGE	85 %	49 %
NO BUILD LINE	50 FT	N/A
NO DISTURB LINE	30 FT	30 FT

With Additional signage
for camera locations as noted
on page C-2-0
and with exceptions noted
on page C-3-0

Date: 1/24/08
Barbara Ford, Chairmat
Amherst Zoning Board of Appeals



DEMOLITION GENERAL NOTES:

1. ALL REQUIRED UTILITY DISCONNECTS AND/OR ABANDONMENTS TO BE COORDINATED WITH RESPECTIVE UTILITY COMPANIES AND OWNER PRIOR TO CONSTRUCTION PHASING. REFER TO NOTE 7 OF THE CIVIL GENERAL NOTES ON DRAWING C-0.0
2. CONTRACTOR TO PROTECT AND MAINTAIN ALL EXISTING UTILITIES TO REMAIN.
3. SEDIMENTATION AND SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE DEMOLITION WORK.
4. ALL EXISTING UTILITIES, PLANTINGS SIGNS, CURBING PAVEMENT, SITE WALLS ETC. SHOWN IN BOLD TO BE REMOVED WITHIN THE CONTRACT LIMIT LINE. REFER TO CIVIL GENERAL NOTES FOR MORE INFORMATION.
5. SEDIMENTATION AND SOIL EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY SITE DEMOLITION WORK. REFER TO DRAWING C-5.0 FOR MORE INFORMATION.
6. EXISTING BITUMINOUS PAVEMENT TO BE SAW-CUT AT ALL LOCATIONS WHERE EXISTING BITUMINOUS PAVEMENT WILL MATCH NEW BITUMINOUS PAVEMENT.

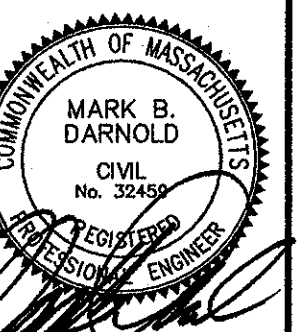
 INDICATES BITUMINOUS PAVEMENT TO BE REMOVED

The Berkshire Design Group, Inc.

Landscape Architecture
Civil Engineering
Planning
Land Surveying

4 Allen Place, Northampton, Massachusetts 01060
(413) 582-7000 • FAX (413) 582-7005

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The Hanger Pub & Grill- Parking Improvements

55 UNIVERSITY DRIVE
AMHERST, MASSACHUSETTS

SITE PLAN APPROVAL
FOR CONSTRUCTION
DECEMBER 18, 2007

Record Owner/Applicant:

Sotorios Anamisis
7 Newton Street
Belchertown, Massachusetts
01007

Site Demolition, Erosion Control and Sedimentation Control Plan

NOI / Special Permit Application

Revisions

REVISED PER TOWN COMMENTS 07-31-07
REVISED PER TOWN COMMENTS 09-12-07
REVISED PER TOWN COMMENTS 11-19-07
REVISED PER TOWN COMMENTS 12-18-07

Date: July 11, 2007

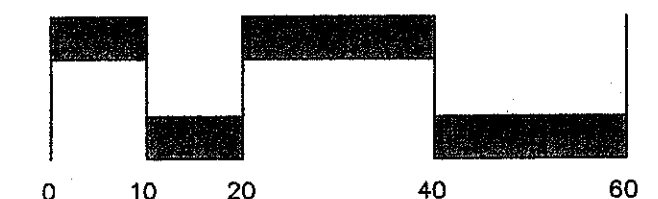
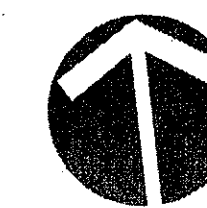
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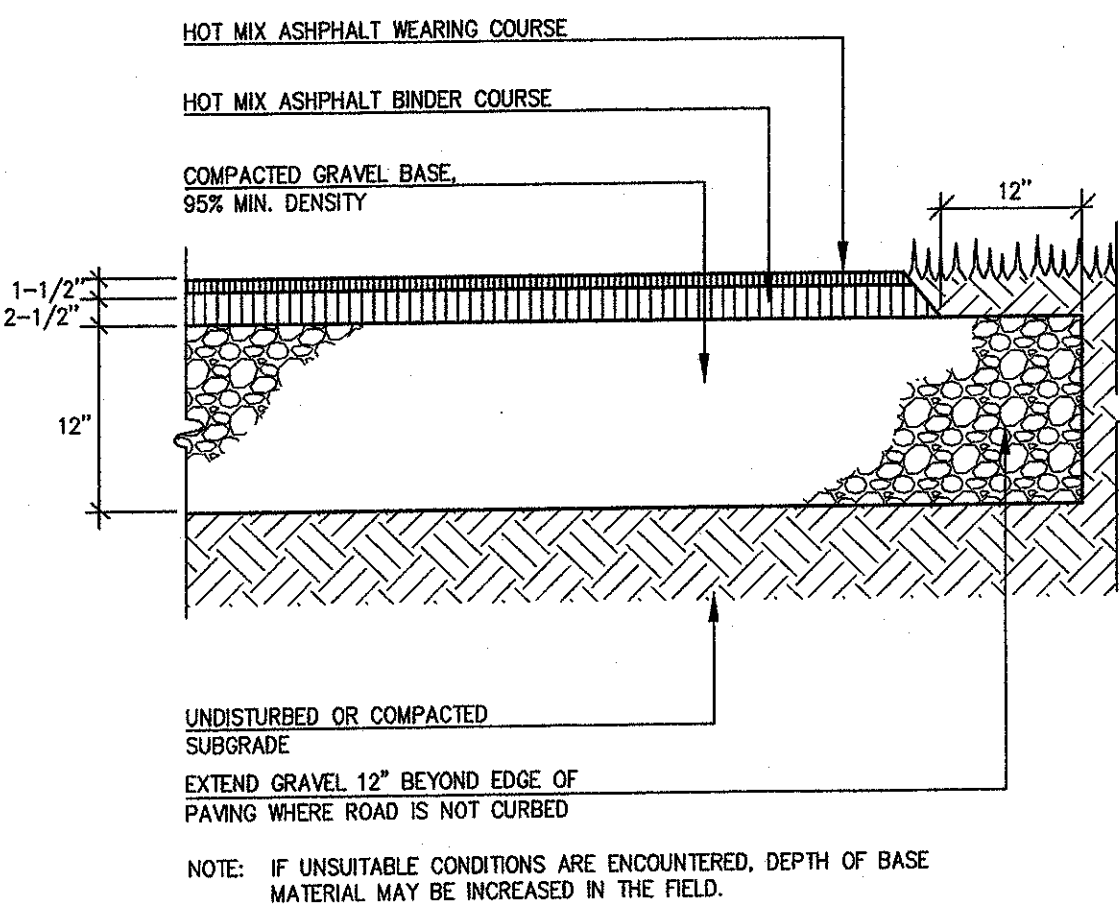
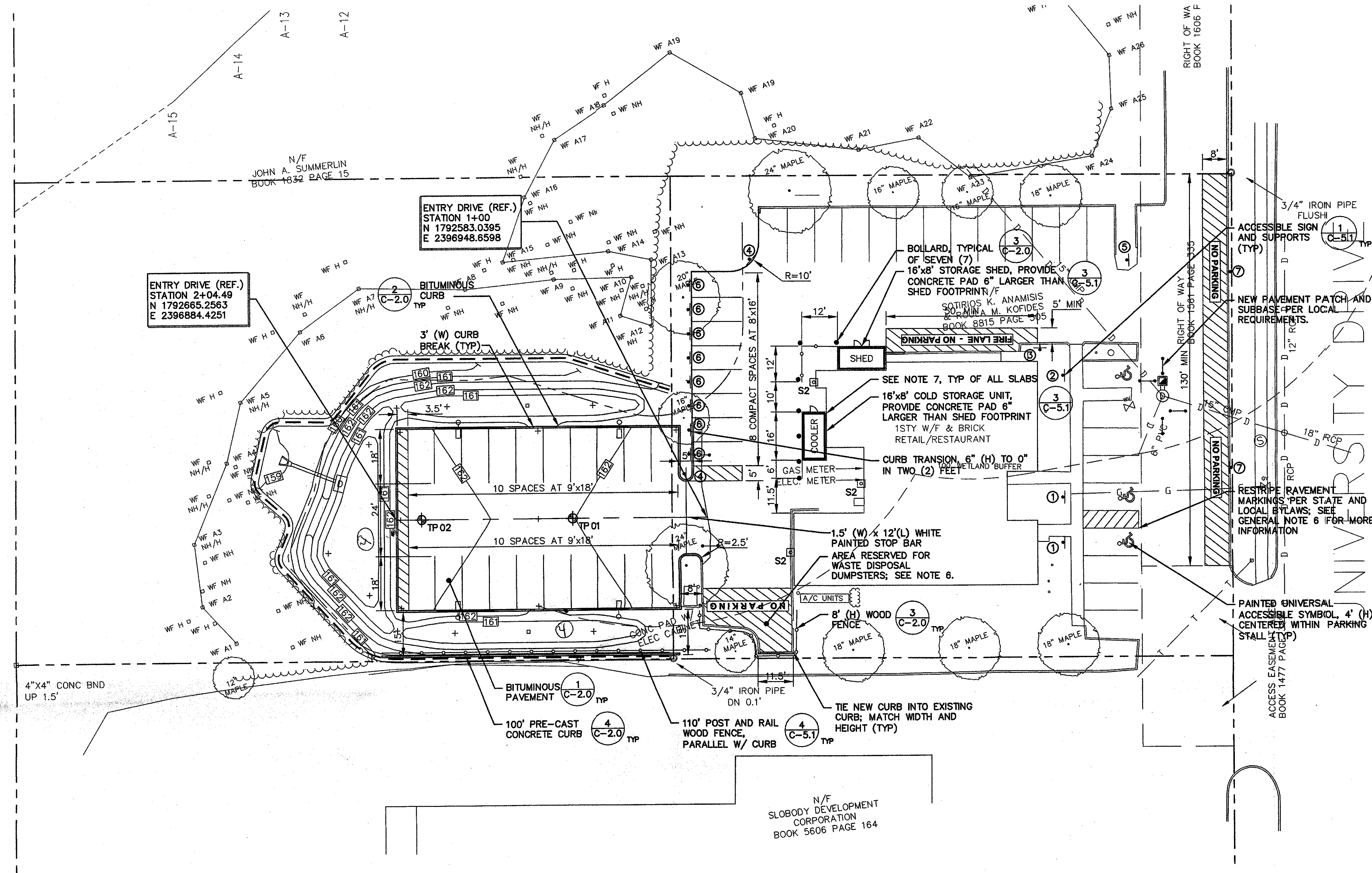
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Drawn By: SJP

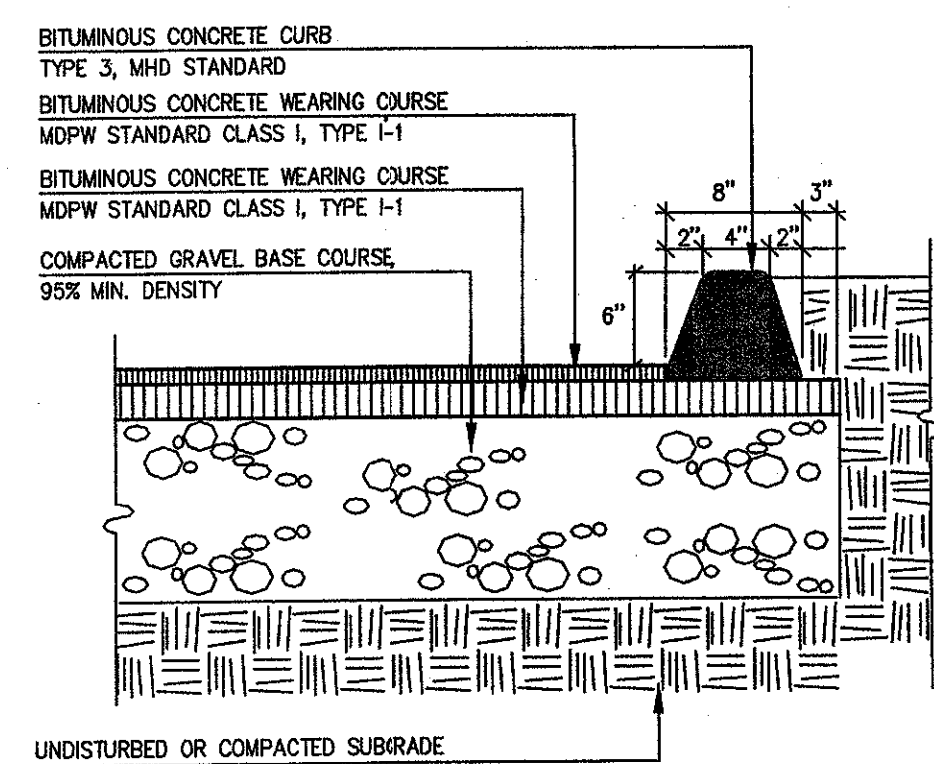
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C-1.0

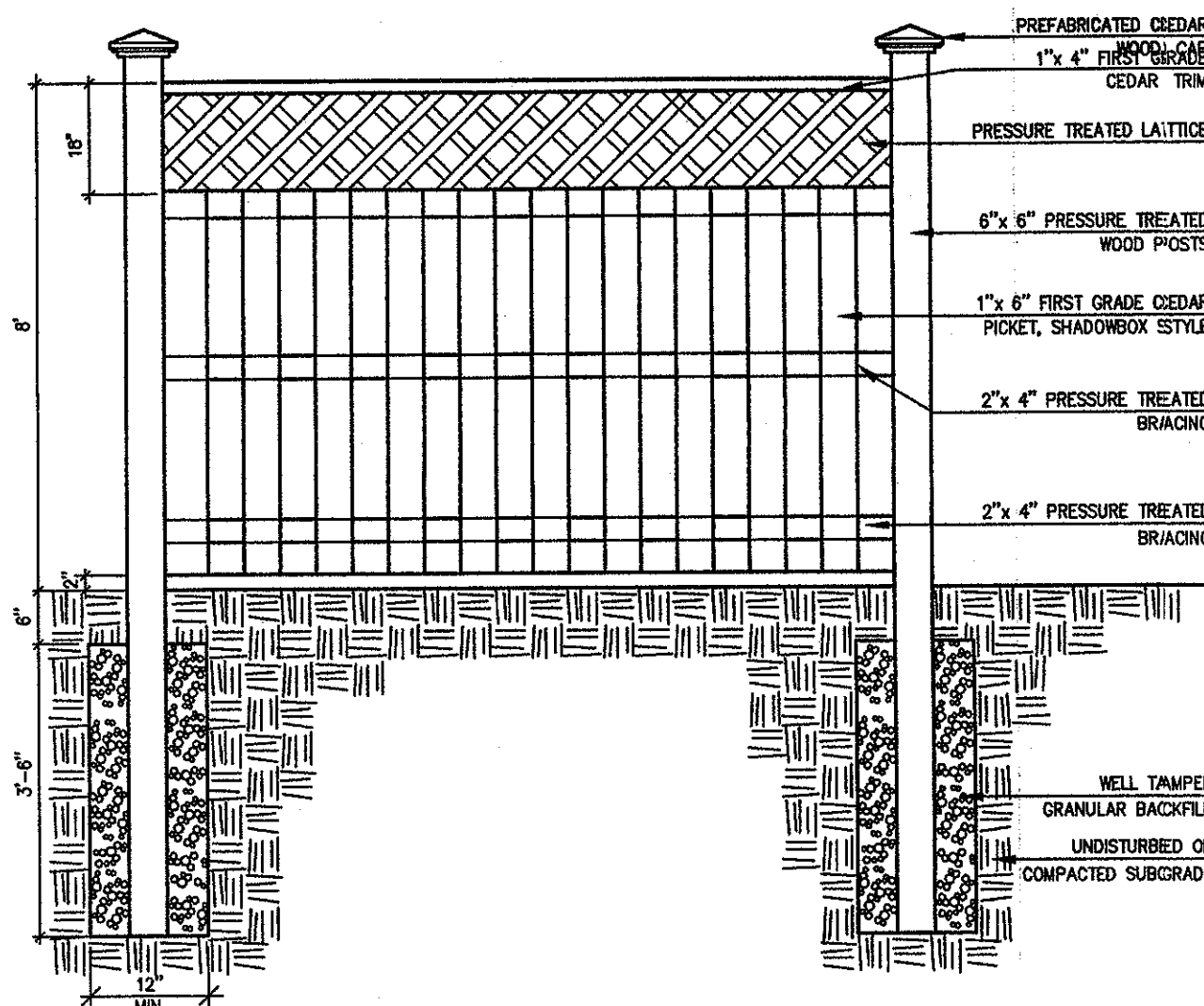




1 BITUMINOUS CONCRETE PAVING
C-2.0 NOT TO SCALE



2 BITUMINOUS CONCRETE CURB
C-2.0 NOT TO SCALE

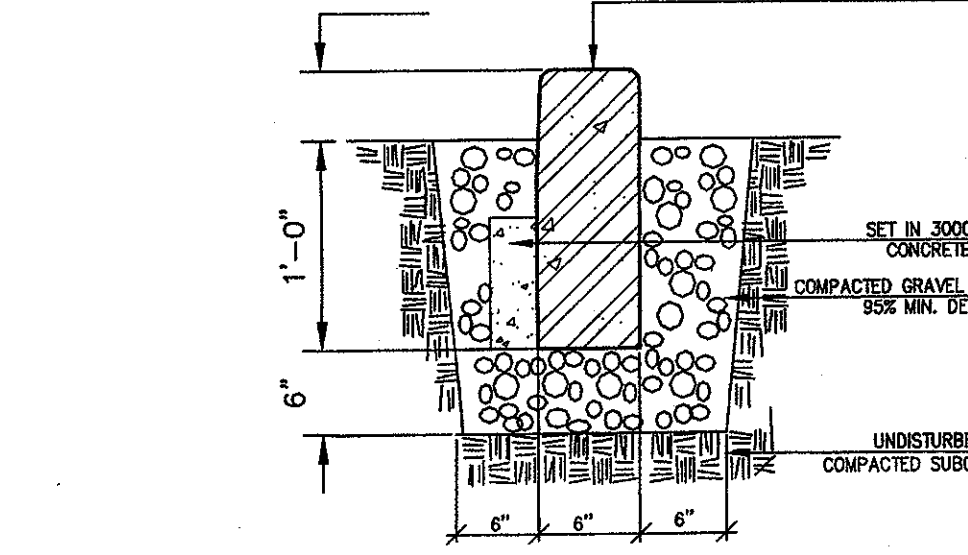


3 TYPICAL WOOD FENCE DETAIL
C-2.0 NOT TO SCALE

- SITE MATERIALS GENERAL NOTES:**
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONAL LAYOUT INFORMATION AND NOTIFY ANY DISCREPANCIES TO THE ENGINEER FOR REVIEW AND CLARIFICATION PRIOR TO THE INSTALLATION OF ANY SITE IMPROVEMENTS.
 - ALL RADI AND DIMENSIONS ARE TO THE FACE OF CURB, BUILDING, WALLS, EDGE OF PAVEMENT, ETC. UNLESS OTHERWISE NOTED.
 - THERE SHALL BE A SMOOTH TRANSITION WHERE NEW PAVEMENT, WALKS AND CURBS TIE INTO EXISTING PAVEMENTS, WALKS AND CURBS. MATCH EXISTING WIDTH AND HEIGHT.
 - CONTRACTOR TO COORDINATE STATE AND LOCAL REQUIREMENTS FOR SIDEWALKS.
 - SITE GRADING AND DRAINAGE IS SHOWN FOR REFERENCE ONLY.
 - ALL PARKING SPACES AND HATCHED AREAS TO BE PAINTED WITH TRAFFIC PAINT. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - PROVIDE FULL DEPTH 1/2" PREMOULDED JOINT FILLER AND SEALANT WHEREVER CONCRETE ABUTS FIXED OBJECTS (TYPICAL).

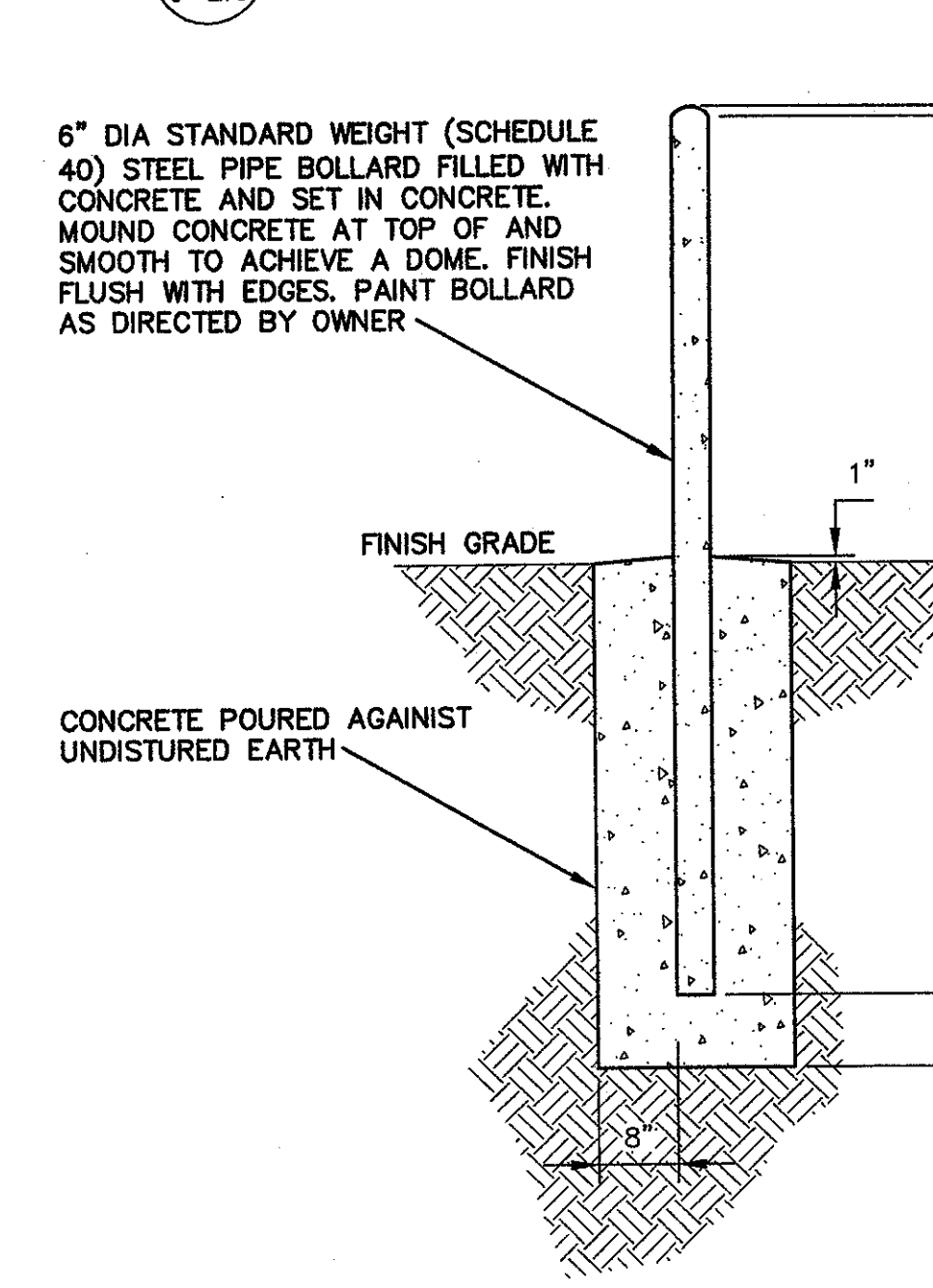
- DESCRIPTION OF SIGNS:**
- ACCESSIBLE PARKING SIGN
 - ACCESSIBLE VAN PARKING SIGN
 - FIRE LANE "NO PARKING" SIGN
 - VIDEO SURVEILLANCE SIGN
 - NEW PARKING AREA SIGN
 - COMPACT PARKING SIGN
 - NO PARKING SIGN

SEE SITE DETAIL 1/C-5.1 FOR ADDITIONAL INFORMATION 6" MIN



* PROCEDURE DESCRIBED HEREIN IS APPLICABLE ONLY IF CURB IS TO BE SET AFTER BASE AND/OR BINDER COURSES ARE IN PLACE. OTHERWISE CONCRETE WILL BE ELIMINATED AND GRAVEL BROUGHT UP TO BOTTOM OF BASE COURSE.

4 TYPICAL PRE-CAST CONCRETE CURB DETAIL
C-2.0 NOT TO SCALE



5 TYPICAL BOLLARD DETAIL
C-2.0 NOT TO SCALE



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MARK D. DARNOLD
CIVIL
No. 32459
REGISTERED PROFESSIONAL ENGINEER

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**The Hanger Pub & Grill-
Parking Improvements**

55 UNIVERSITY DRIVE
AMHERST, MASSACHUSETTS

SITE PLAN APPROVAL
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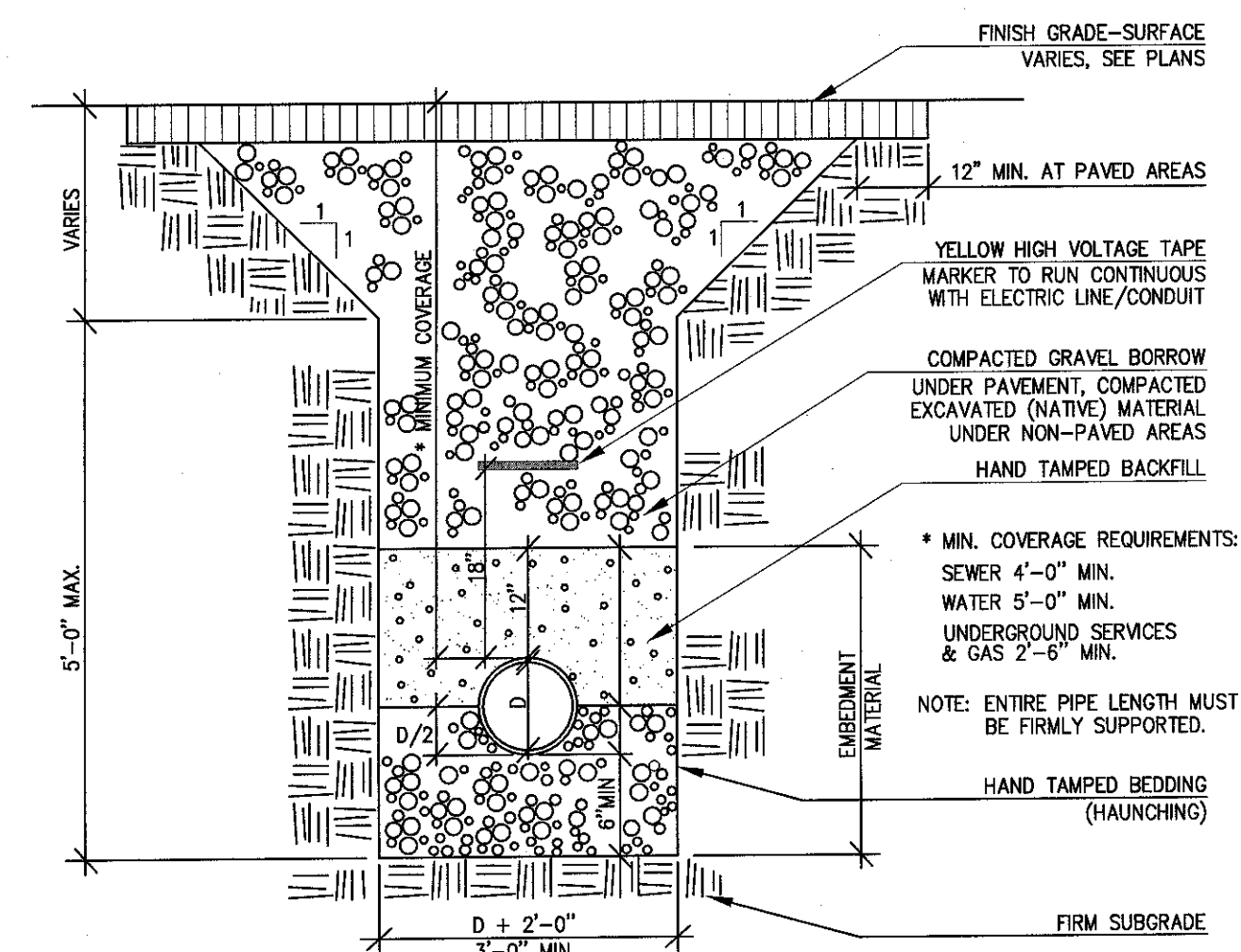
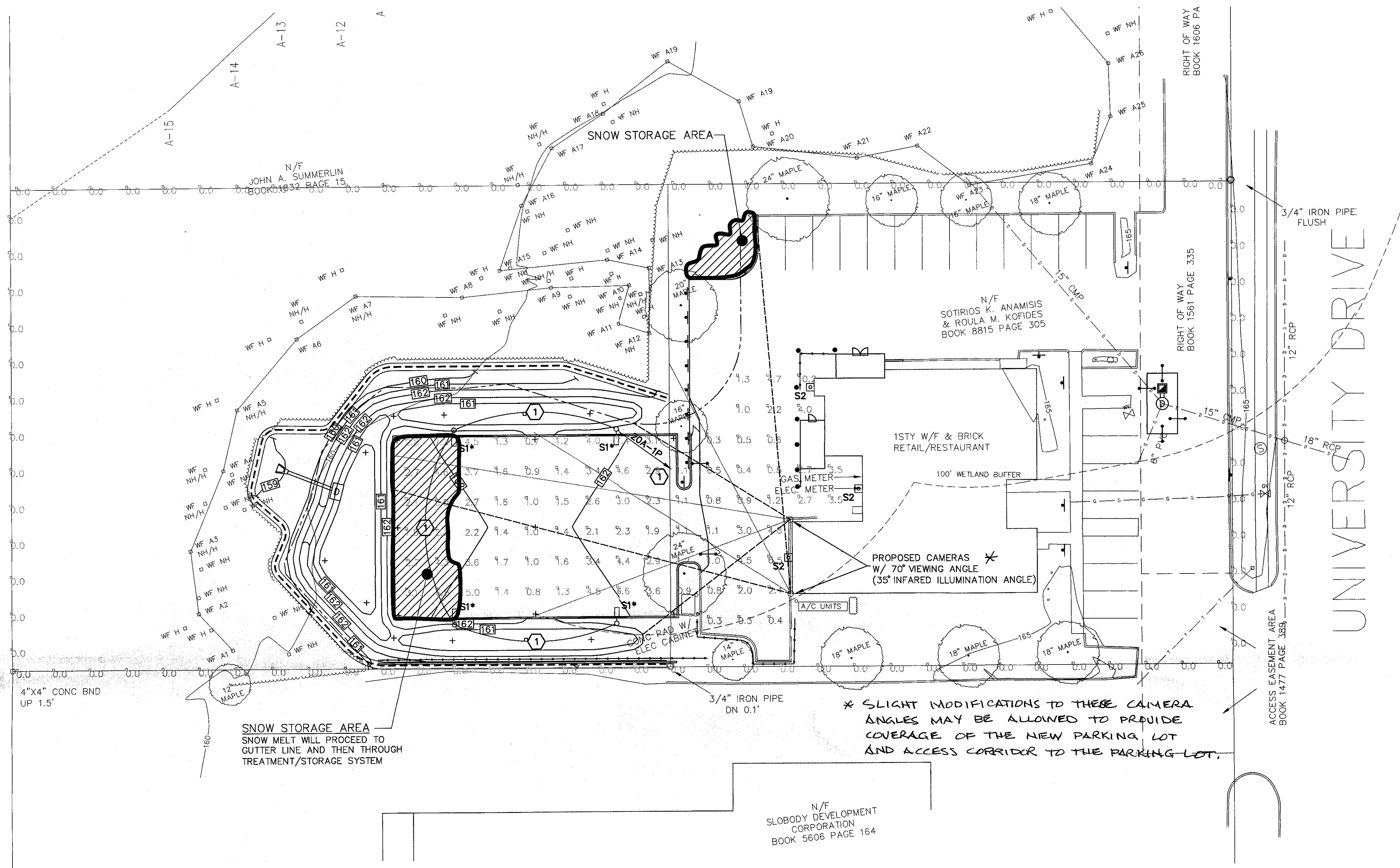
**Site Materials,
Layout Plan**

**NOI / Special Permit
Application**

Revisions	
REVISED PER TOWN COMMENTS 07-31-07	
REVISED PER TOWN COMMENTS 09-12-07	
REVISED PER TOWN COMMENTS 11-19-07	
REVISED PER TOWN COMMENTS 12-18-07	

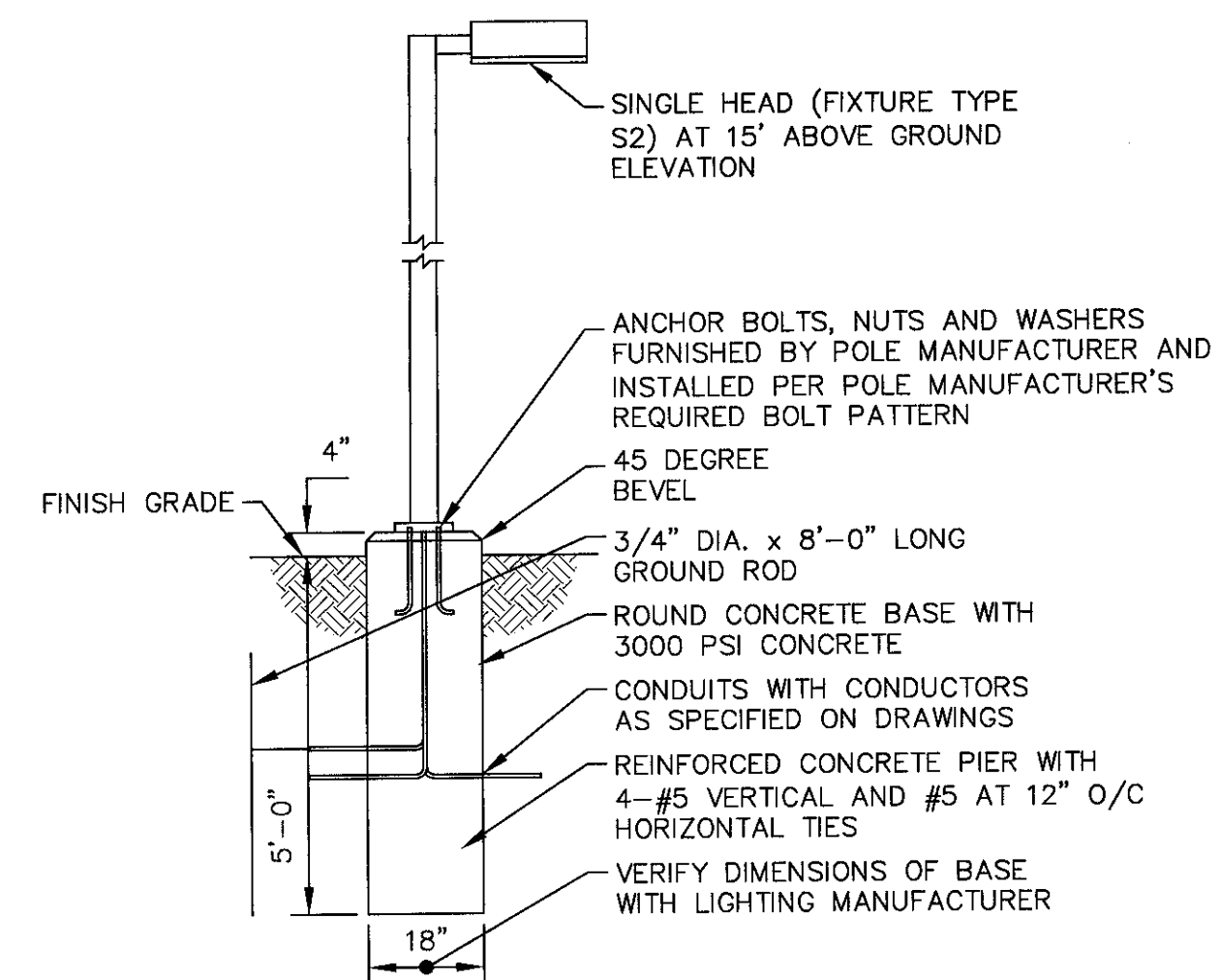
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Checked By:	MBD	

C-2.0

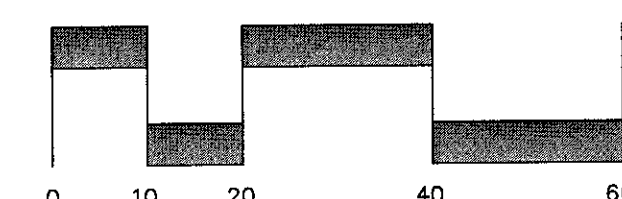
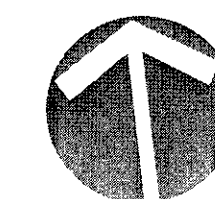


1 UTILITY TRENCH DETAIL
C-3.0 NOT TO SCALE

LUMINAIRE SCHEDULE				
TYPE	MANUFACTURER	FIXTURE DESCRIPTION	VOLTS	LAMPS
S1	RUDD AC1-12	SINGLE-HEAD POLE MOUNTED METAL HALIDE SODIUM LUMINAIRE AND POLE: LUMINAIRE(S): DIE CAST ALUMINUM HOUSING WITH MEDIUM OR MOGAL BASE PORCELAIN SOCKET; DIE-CAST ALUMINUM MOUNTING PLATE; UL LISTED FOR WET LOCATIONS; THERMOSET POLYESTER POWDER COATED FINISH; FIXTURE AND POLE COLOR SHALL BE OWNER STANDARD; (1) METAL HALIDE HORIZONTAL -MOUNTED LAMP; DIE-CAST ALUMINUM DOOR FRAME WITH GASKETING; STAINLESS STEEL SCREWS; SPECULAR ANODIZED ALUMINUM REFLECTOR; HOUSE SIDE SHIELDS AS DIRECTED BY THE DRAWINGS; 3/16" THICK CLEAR TEMPERED GLASS LENS; (1) MULTI BALLAST; FUSE PROTECTION; POLE: 4" DIAMETER 0.125" THICK 15' TALL STRAIGHT SQUARE STEEL POLE; (4) L SHAPED HOT DIPPED GALVANIZED STEEL ANCHOR BOLTS EACH WITH (2) HEX NUTS, (2) FLAT WASHERS AND (2) LOCK WASHERS; BASE COVER; FIXTURE AND POLE COLOR SHALL BE OWNER STANDARD COLOR; POLE AND LUMINAIRE(S) DESIGNED TO WITHSTAND 140 MPH WIND. PROVIDE PHOTOCELL ON FIXTURE.	120 V	1 - 150 W METAL HALIDE
S2	RUDD GWCO-12	SINGLE-HEAD MOUNTED TO BUILDING AT TEN (10) FEET, NO-TILT: LUMINAIRE(S): DIE CAST ALUMINUM HOUSING WITH MEDIUM OR MOGAL BASE PORCELAIN SOCKET; DIE-CAST ALUMINUM MOUNTING PLATE; UL LISTED FOR WET LOCATIONS; THERMOSET POLYESTER POWDER COATED FINISH; FIXTURE AND POLE COLOR SHALL BE OWNER STANDARD; (1) METAL HALIDE HORIZONTAL -MOUNTED LAMP; DIE-CAST ALUMINUM DOOR FRAME WITH GASKETING; STAINLESS STEEL SCREWS; SPECULAR ANODIZED ALUMINUM REFLECTOR;	120 V	1 - 70 W METAL HALIDE



2 SITE LIGHTING FIXTURE DETAIL
C-3.0 NOT TO SCALE



UTILITY GENERAL NOTES:

- FOR UTILITY TRENCH DETAILS, REFER TO 1/C-3.0
- EXISTING MANHOLES AND COVERS ARE TO BE RESET AS REQUIRED TO MATCH NEW GRADES.
- ALL WATER MAIN INSTALLATIONS ARE TO BE APPROVED BY THE FIRE MARSHALL PRIOR TO TRENCH BACKFILL
- SITE LIGHTING PATHS ARE DIAGRAMMATIC. ACTUAL PATH TO BE FIELD VERIFIED
- PROVIDE NYLON PULL ROPES IN ALL CONDUITS
- TYPE "S1" LIGHT FIXTURES TO HAVE HOUSE SIDE SHIELDS
- STORM DRAINAGE IS SHOWN FOR REFERENCE ONLY
- ALL SITE DISTURBANCE DUE TO LAYOUT OF SIT LIGHTING WIRING SHALL BE RESTORED TO EXISTING CONDITIONS
- PROVIDE PHOTOCELL ON ONE FIXTURE AND CONNECT CIRCUITS TO CONTACTOR WITHIN BUILDING
- CAMERAS TO BE MOUNTED ON BUILDING
- CONTRACTOR SHALL LOCATE SURVEILLANCE CAMERAS IN THE REAR CORRIDOR OF THE BUILDING.
- SURVEILLANCE CAMERAS SHALL BE OPERATED DURING RESTAURANT STAFF HOURS
- THE OWNER SHALL CONSULT WITH LOCAL AUTHORITIES REGARDING THE OPERATION OF SURVEILLANCE CAMERAS.

CONDUIT SCHEDULE:

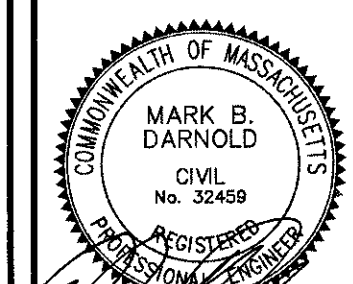
- 1 3-4" PVC CONDUITS DIRECT BURIED

The Berkshire Design Group, Inc.

Landscape Architecture
Civil Engineering
Planning
Land Surveying

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The Hanger Pub & Grill-Parking Improvements

55 UNIVERSITY DRIVE
AMHERST, MASSACHUSETTS

SITE PLAN APPROVAL
FOR CONSTRUCTION
DECEMBER 18, 2007

Record Owner/Applicant:

Sotorios Anamisis
7 Newton Street
Belchertown, Massachusetts
01007

Site Utility and Site Lighting Photometric Analysis Plan

NOI / Special Permit Application

Revisions

REVISED PER TOWN COMMENTS 07-31-07
REVISED PER TOWN COMMENTS 09-12-07
REVISED PER TOWN COMMENTS 11-19-07
REVISED PER TOWN COMMENTS 12-18-07
REVISED PER TOWN COMMENTS 02-22-08
REVISED PER TOWN COMMENTS 02-25-08

Date: July 11, 2007

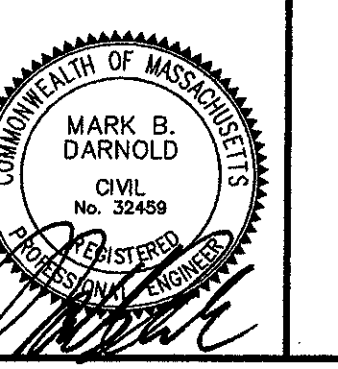
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Drawn By: SJP

Checked By: MBD

Sheet Number

C-3.0



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The Hanger Pub & Grill Parking Improvements

55 UNIVERSITY DRIVE
AMHERST, MASSACHUSETTS

SITE PLAN APPROVAL
FOR CONSTRUCTION
DECEMBER 18, 2007

Record Owner/Applicant:

Sotorios Anamisis
7 Newton Street
Belchertown, Massachusetts
01007

Site Grading and Drainage Plan

NOI / Special Permit Application

Revisions
REVISED PER TOWN COMMENTS 07-31-07
REVISED PER TOWN COMMENTS 09-12-07
REVISED PER TOWN COMMENTS 11-19-07
REVISED PER TOWN COMMENTS 12-18-07

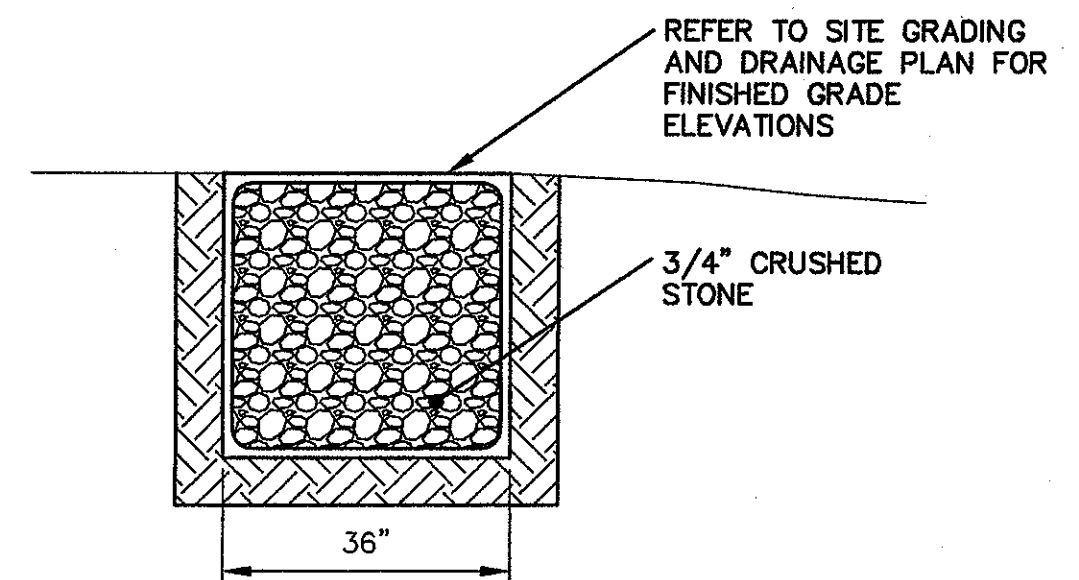
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Checked By: MBD

C-4.0

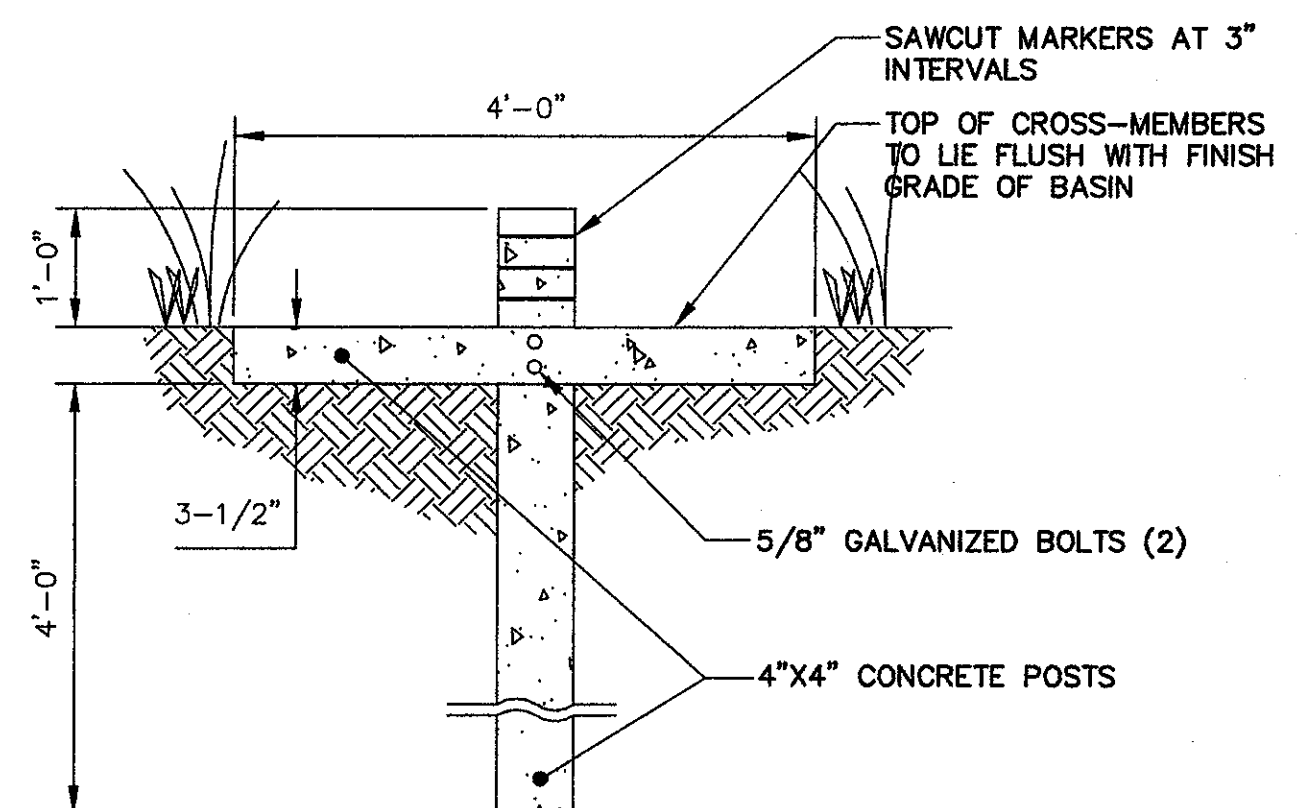
GRADING AND DRAINAGE GENERAL NOTES:

- PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS AS SHOWN ON THE DRAWINGS WITH ACTUAL FIELD CONDITIONS AND NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES. COMMENCEMENT OF WORK IN AREA SIGNIFIES ACCEPTANCE OF EXISTING CONDITIONS SHOWN ON THESE DRAWINGS AS BEING SUBSTANTIALLY CORRECT.
- PROPOSED GRADES INDICATE INTENT. THE CONTRACTOR SHALL VERIFY ELEVATIONS AND MAKE FIELD ADJUSTMENTS AS REQUIRED AND AUTHORIZED BY THE OWNER, TO MEET FIELD CONDITIONS AND TO PROVIDE POSITIVE SURFACE DRAINAGE TOWARDS NEW AND EXISTING DRAINAGE INLETS. ADJUST EXISTING DRAINAGE STRUCTURES TOP ELEVATIONS AS REQUIRED.
- CONTRACTOR SHALL SMOOTHLY BLEND ALL PROPOSED GRADES TO EXISTING CONDITIONS. ROUND OFF TOP AND TOE OF SLOPES.
- SITE UTILITIES ARE SHOWN FOR REFERENCE ONLY.
- ALL SOIL DATA WITH REGARD TO THE FINDINGS OF INFILTRATION SYSTEM AND GEOTECHNICAL INFORMATION SHALL BE VERIFIED IN THE FIELD. THE ENGINEER SHALL BE NOTIFIED IN WRITING OF ANY DISCREPANCIES.
- CONTRACTOR SHALL INSTALL TRENCH DEWATERING METHODS PER SOIL EROSION SPECIFICATIONS, GENERAL NOTE 1.2.A (C-5.0) AND CONSTRUCTION DETAIL (3/C-5.0).

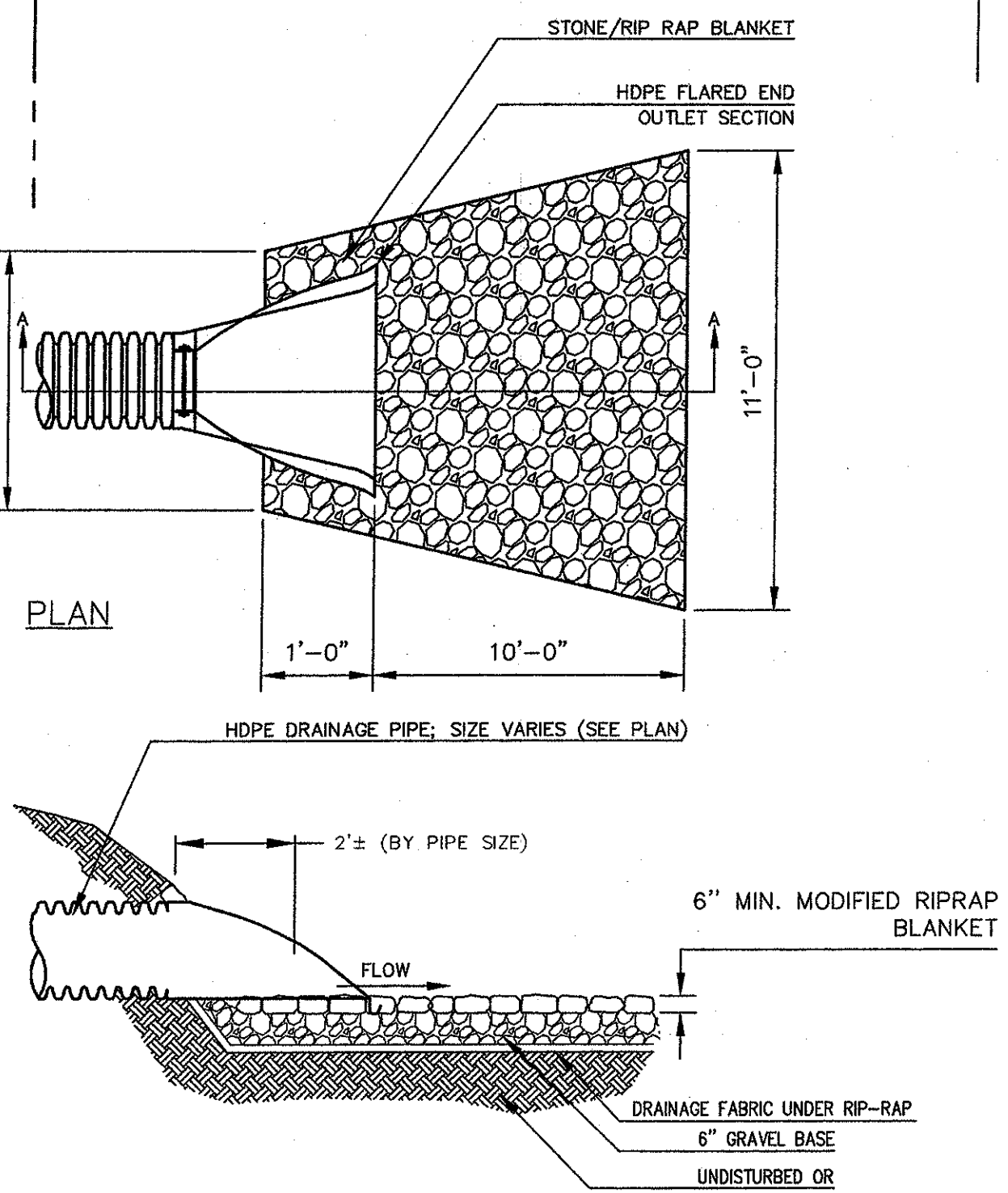
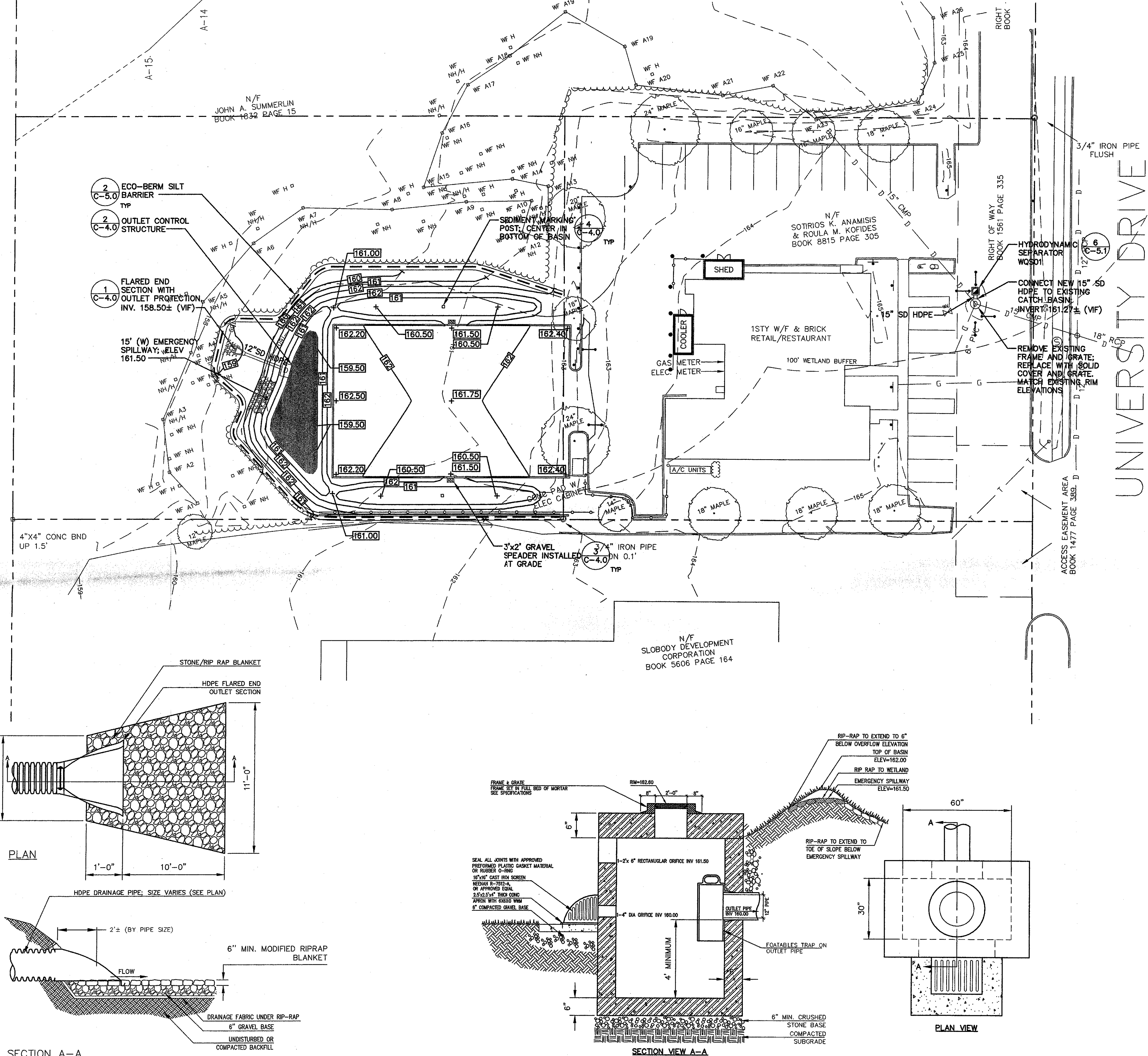
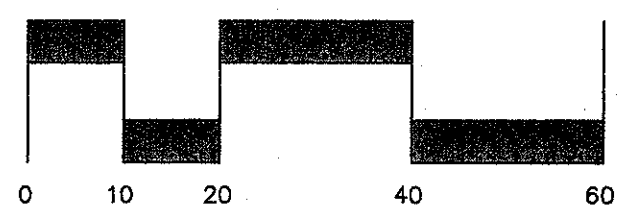
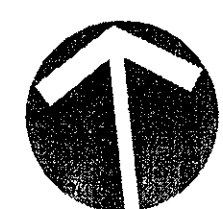
INDICATES AREA TO BE PLANTED WITH NEW ENGLAND WET MIX



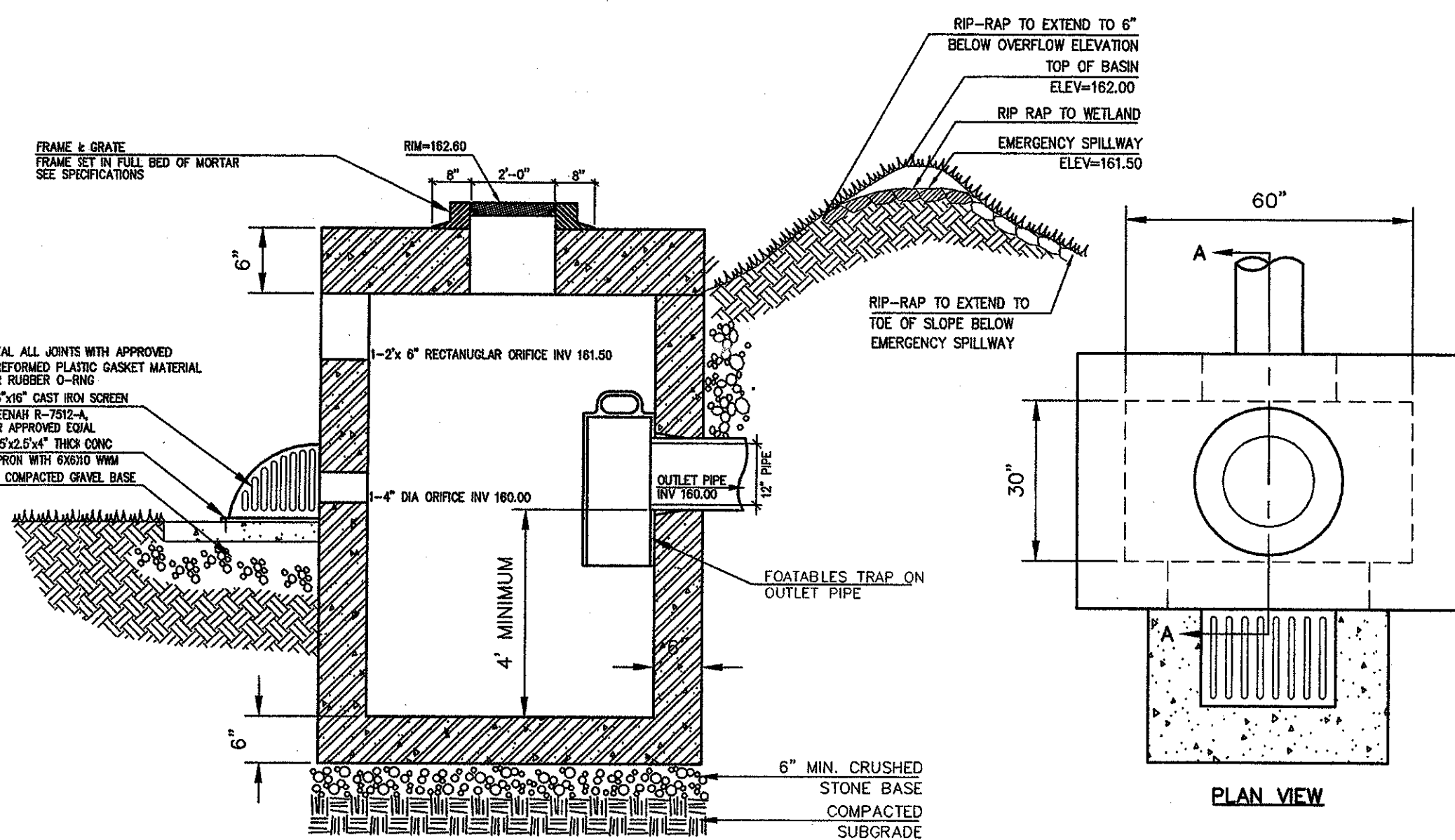
3 TYPICAL GRAVEL SPREADER DETAIL
C-4.0 NOT TO SCALE



4 SEDIMENT FOREBAY MARKING POST DETAIL
C-4.0 NOT TO SCALE



1 TYPICAL FLARED END DETAIL WITH OUTLET PROTECTION
C-4.0 NOT TO SCALE



2 OUTLET CONTROL STRUCTURE DETAIL
C-4.0 NOT TO SCALE

SOIL EROSION AND SEDIMENT CONTROL NARRATIVE:

APPLICATION/GENERAL PROCEDURE:

- A. SOIL EROSION AND SEDIMENT MEASURES WILL BE INSTALLED PRIOR TO ANY SITE DISTURBANCE AND DEVELOPMENT WILL PROCEED ACCORDING TO A SPECIFY CONSTRUCTION PHASING AS INDICATED ON THE CONTRACT DOCUMENTS. THE OBJECTIVE IS TO MINIMIZE THE AMOUNT OF SEDIMENT -LADEN RUNOFF THROUGH IMPLEMENTATION OF A VARIETY OF CONVENTIONAL SOIL SEDIMENTATION AND EROSION CONTROL PRACTICES RECOMMENDED BY THE LOCAL AND STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL PROCEDURES AND APPLICATION TECHNIQUES SHALL CONFORM TO THE ABOVE MENTIONED GUIDELINES AND THE DETAILS SHOWN ON THE CONTRACT DRAWINGS.
- B. THE CONTRACTOR SHALL NAME ONE INDIVIDUAL AS AS EROSION CONTROL SUPERVISOR WHOSE PRIMARY RESPONSIBILITY WILL BE THE MAINTENANCE AND REPAIR OF ALL ON-SITE EROSION CONTROL MEASURES. THE EROSION CONTROL SUPERVISOR WILL KEEP A DAILY LOG OF THEIR ACTIVITIES AND COMPLETE A DAILY CHECKLIST (ESTABLISHED BY THE CONTRACTOR) SIMILAR TO THE DETAIL SHOWN ON THE CONTRACT DOCUMENTS . THE EROSION CONTROL SUPERVISOR SHALL ALSO MAINTAIN A SCHEDULE OF WEEKLY CONSTRUCTION ACTIVITIES. THE CHECKLIST AND LOG SHALL BE MADE AVAILABLE TO INSPECTORS UPON REQUEST.
- C. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH DAILY LOGS OF THE CONSTRUCTION PROCESS, UPDATED SCHEDULES, AND CONDITIONS OF ON-SITE SEDIMENTATION AND EROSION CONTROLS/WATER QUALITY.
- D. THE RESPONSIBILITY FOR PERFORMING PERIODIC CHECKS OF THE EROSION CONTROL MEASURES-PLACE AND TO COORDINATE CLEANING AND REPAIRS SHALL BE ASSIGNED TO THE EROSION CONTROL SUPERVISOR.
- E. ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE CHECKED FOR THE ADEQUACY OF THE CONTROL SYSTEMS AS OUTLINED IN THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- F. REPAIRS TO THE SEDIMENTATION CONTROL SYSTEMS DIRECTED BY THE EROSION CONTROL SUPERVISOR WILL BE OUTLINED IN THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- G. REPLACEMENT MATERIALS FOR THE DEVICES UTILIZED MUST BE READILY AVAILABLE FOR REPAIRS.
- H. CLEANING OF SEDIMENTATION AND EROSION CONTROL DEVICES WILL BE PERFORMED AS DIRECTED BY THE EROSION CONTROL OFFICER AND AS OUTLINED IN THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- I. PLACEMENT OF TEMPORARY SEDIMENTATION AND EROSION CONTROL DEVICES THAT ARE NOT SHOWN ON THE PLANS. BUT, ARE REQUIRED DUE TO THE CONTRACTOR'S OPERATIONS. WILL BE PLACED AT THE DIRECTION OF THE EROSION CONTROL SUPERVISOR, ENGINEER AND LOCAL AUTHORITY HAVING JURISDICTION. PLACEMENT OF SUCH MEASURES SHALL FOLLOW THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SEDIMENT AND EROSION CONTROL MEASURES.
- J. EARTHWORK CONSTRUCTION ACTIVITIES WILL BE SCHEDULED FOR PERIODS WHEN SOIL SATURATION IS LOW AND SOIL LOSS HAZARD IS AT A MINIMUM RISK.
- K. SUSPEND EARTHWORK CONSTRUCTION ACTIVITIES FOR MAJOR STORM EVENTS AND IMPLEMENT ADDITIONAL SEDIMENTATION AND EROSION CONTROLS AS NECESSARY.
- L. STAGE CONSTRUCTION ACTIVITIES SUCH THAT ONLY THOSE AREAS OF THE SITE SCHEDULED FOR IMMEDIATE DEVELOPMENT DISTURBED AND ACTIVITIES SCHEDULED FOR LATER DEVELOPMENT ARE NOT STARTED PREMATURELY.
- M. THERE WILL BE NO LARGE CUTS OR FILLS LEFT AS "RAW" AREAS SUB-GRADE WILL BE ACHIEVED AS SOON AS POSSIBLE AND AN ESTABLISHED PROCEDURE OF TEMPORARY SEEDING AND/OR COVER AND MULCH OR EROSION PROTECTION (EROSION CONTROL BLANKET FOR SOLES AND MULCH OR EROSION CONTROL BLANKETS FOR FLAT AREAS); WILL BE FOLLOWED TO INSURE MINIMUM SOIL LOSS.
- N. ALL SURFACES DESIGNATED FOR PAVING WILL HAVE THE SUB-BASE, BASE AND BINDER INSTALLED AS SOON AS POSSIBLE. WHERE FEASIBLE THE STORM DRAINAGE SYSTEM WILL BE INSTALLED TO PROVIDE CONTROL OF SURFACE RUNOFF.
- O. DUST CONTROL AND OFF-SITE STREET DEBRIS CAUSED BY THE CONTRACTOR'S EARTHWORK OPERATIONS WILL BE PREVENTED, DELAYED OR CLEANED UP IN ACCORDANCE WITH THE LATEST REVISIONS OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- P. CONTROL MEASURES AS INDICATED ON THE CONTRACT DOCUMENTS SHALL BE SUBJECT TO ADDITION AND OR MODIFICATIONS AS REQUIRED TO MEET ACTUAL SITE AND WEATHER CONDITIONS AND ADHERE TO THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENTATION CONTROL.
- Q. THE CONTRACTOR SHALL PROTECT ANY EXISTING AND NEW INLET STRUCTURES, DRAINAGE SWALES , PROPERTY ETC., WHICH MAY INTERCEPT RUN-OFF DUE TO CONSTRUCTION ACTIVITIES BOTH INSIDE AND OUTSIDE OF THE WORK LIMITS.

EROSION AND SEDIMENTATION CONTROL CONSTRUCTION STAGES:

STAGE 1:

- A. IMMEDIATE AFTER MOBILIZATION BUT PRIOR TO INITIATING ANY SOIL-DISTURBING ACTIVITIES THE CONTRACTOR SHALL MAKE A GENERAL SITE ASSESSMENT TO ESTABLISH CONSTRUCTION LIMITS, DESIGNATE CONSTRUCTION ENTRANCES AND INSTALL ALL SPECIFIED SOIL EROSION AND SEDIMENT CONTROL MEASURES.

STAGE 2:

- A. CLEAR SITE AS REQUIRED ACCOMMODATING THE CONSTRUCTION. LEGALLY CUT AND CHIP BRUSH AND REMOVE STUMPS FROM THE SITE TO BE DISPOSED OF IN A PROPER MANNER. THE OWNER'S PERMISSION IS REQUIRED BEFORE CLEARING BEYOND TREE LINE OR WOODED AREA DEFINED ON THE PLANS.
- B. ADDRESS ALL STOCKPILE MATERIAL AS INDICATED IN THE EROSION CONTROL SPECIFICATION.
- C. EXCAVATE SITE TO SUB GRADE AND INSTALL ALL REQUIRED MEASURES TO STABILIZE THE SITE AND PREVENT SOIL EROSION AND CONTROL SEDIMENTATION. NO RAW CUTS OR FILL SHALL BE LEFT EXPOSED TO THE ELEMENTS. COVER; AND EXPOSED AREAS WITH PROTECTIVE EROSION CONTROL BLANKETS - IF NO WORK IS ANTICIPATED WITHIN A TWO (2) WEEK PERIOD OR IF SIGNIFICANT RAINFALL IS ANTICIPATED. TEMPORARY SEED ALL DISTURBED AREAS.

STAGE 3:

- A. SURVEY, STAKE, AND PLACE NEW IMPROVEMENTS INDICATED IDENTIFIED WITHIN THE WORK AREA AS SHOWN ON THE CONTRACT DOCUMENTS.
- B. MAINTAIN, CLEAN AND REPAIR EROSION CONTROL AND SEDIMENTATION PROTECTION MEASURES AS RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

STAGE 4:

- A. RESPREAD TOPSOIL TO DESIGNATED AREAS.
- B. INSTALL NEW PLANTING BEGIN WITH THE SITE PERIMETER PLANTING IN BUFFER YARDS TO ACHIEVE EARLY STABILIZATION, AND SEDIMENT PROTECTION MEASURES IN PLACE UNTIL SITE IS STABILIZED AS APPROVED BY THE ENGINEER.
- C. CLEAN UP SITE BUT LEAVE REMAINING EROSION CONTROL AND SEDIMENT PROTECTION MEASURES IN PLACE UNTIL SITE IS STABILIZED AS APPROVED BY THE ENGINEER.
- D. MAINTAIN, CLEAN AND REPAIR EROSION CONTROL AND SEDIMENTATION PROTECTION MEASURES AS RECOMMENDED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

SOIL EROSION AND SEDIMENT CONTROL SPECIFICATIONS:

PART 1 - GENERAL

1.1 SUMMARY

- A. THE WORK UNDER THIS SECTION INCLUDES BUT IS NOT TO PROVIDING ALL LABOR, EQUIPMENT AND MATERIALS FOR THE INSTALLATION OF REQUIRED SITE RELATED EROSION CONTROL MEASURES. IF NOT OTHERWISE DIRECTED ON THE PLANS. EROSION CONTROL SHALL BE IN STRICT CONFORMITY WITH THE LATEST REVISION OF ALL LOCAL AND STATE GUIDELINES FOR EROSION AND SEDIMENT CONTROL.

1.2 GENERAL NOTES

- A. THE DISCHARGE OF SEDIMENT-LADEN WATER FROM THE PROJECT SITE IS PROHIBITED. ALL DISCHARGE WATER FROM DEWATERING OPERATIONS SHALL DISCHARGE INTO APPROVED DEWATERING MEASURES AS REQUIRED BY THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- B. CONTRACTOR SHALL INSTALL ALL EROSION CONTROL MEASURES AS DEPICTED ON THE PLANS AND AS REQUIRED TO ADHERE TO THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.
- C. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR INSPECTING AND MAINTAINING ALL EROSION CONTROL MEASURES UNTIL PROJECT IS COMPLETED.

1.3 SUBMITTALS

- A. PROVIDE PRODUCT DATA FOR THE FOLLOWING:

1. EROSION CONTROL BLANKETS
2. SUBSURFACE DRAINAGE FABRIC
3. ECO - BERM
4. SEPARATION FABRIC
5. CALCIUM CHLORIDE
6. BONDED FIBER MATRIX/HYDRAULICALLY APPLIED MULCH

PART 2 - PRODUCTS

2.1 EROSION CONTROL PRODUCTS

- A. SHALL BE NORTH AMERICAN GREEN OR ENGINEER APPROVED EQUAL. THE TYPE OF BLANKET SHALL BE APPLICABLE TO THE USE IT IS INTENDED AND/OR AS INDICATED ON THE CONTRACT DOCUMENTS.

2.2 SUBSURFACE DRAINAGE FABRIC

- A. WHEN SUBSURFACE DRAINAGE FABRIC IS REQUIRED IT SHALL CONFORM TO THE REQUIREMENTS OF TC MIRAFI PRODUCT 140N OR APPROVED EQUAL.

1. GRAB TENSILE STRENGTH: 120 LBF (MINIMUM); ASTM D 4632
2. TEAR STRENGTH: 50 LBF (MINIMUM); ASTM D 4533
3. PUNCTURE RESISTANCE: 65 LBF (MINIMUM); ASTM D 4833
4. PERMITTIVITY: 1.8 SEC-1 (MINIMUM); ASTM D 4491
5. APPARENT OPENING SIZE: NO. 70 (MAXIMUM); ASTM 4751.

2.3 ECO - BERM

- A. WHEN ECO-BERM IS REQUIRED IT SHALL CONFORM TO THE REQUIREMENTS OF NORTHEAST ENVIRONMENTAL SOLUTIONS OR APPROVED EQUAL.

- A. WHEN SEPARATION FABRIC IS REQUIRED IT SHALL CONFORM TO THE REQUIREMENTS OF THE TC MIRAFI PRODUCT 500 X OR APPROVED EQUAL.

1. GRAB TENSILE STRENGTH: 200 LBF (MINIMUM); ASTM D 4632
2. TEAR STRENGTH: 75 LBF (MINIMUM); ASTM D 4533
3. PUNCTURE RESISTANCE: 90 LBF (MINIMUM); ASTM D 4833
4. PERMITTIVITY: 0.05 SEC-1 (MINIMUM); ASTM D 4491
5. APPARENT OPENING SIZE: NO. 50 (MAXIMUM); ASTM 4751.

2.5 CALCIUM CHLORIDE

- A. CALCIUM CHLORIDE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 144. EITHER REGULAR FLAKE CALCIUM CHLORIDE, TYPE 1, OR CONCENTRATED FLAKE, PELLET OR OTHER GRANULAR CALCIUM CHLORIDE , TYPE 2 MAY BE USES.

2.6 WATER

- A. ALL WATER USED SHALL BE CLEAN AND FREE OF HARMFUL AMOUNTS OF OIL, SALT, ACIDS, ALKALIS, SUGAR, ORGANIC MATTER AND OTHER SUBSTANCES INJURIOUS TO THE FINISHED PRODUCT, PLANT LIFE, OR THE ESTABLISHMENT OF VEGETATION.

2.7 STONE

- A. REFER TO DIVISION 2, EARTHWORK FOR ADDITIONAL INFORMATION.

2.8 SEEDING

- A. TEMPORARY SEEDING - REFER TO THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL.

2.9 BONED FIBER MATRIX/HYDRAULICALLY APPLIED MULCH

- A. MATERIAL SHALL CONFORM TO THE MANUFACTURER'S REQUIREMENTS AS APPLICABLE TO CONSTRUCTION REGION AND CONSTRUCTION TIME PERIOD.

PART 3 - EXECUTION

2.1 EROSION CONTROL BLANKETS

- A. EROSION CONTROL BLANKETS SHALL BE PLACED WHERE INDICATED ON THE CONTRACT DRAWINGS , WHERE DIRECTED BY THE EROSION CONTROL SUPERVISOR AND AS REQUIRED TO ADHERE TO THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION CONTROL AND SEDIMENT CONTROL.
- B. EROSION CONTROL BLANKETS SHALL ALSO BE PLACED ON A; EXPOSED CUT/ FILL SLOPPED TO PROTECT AGAINST RAINFALL , IN AREAS WHERE SEED AND MULCH WILL NOT STAY IN PLACE ALONE AND WHERE SEEDING IS OUTSIDE THE GROWING SEASON.
- C. GRADE AND SMOOTH THE SLOPE TO PROVIDE ADHESION TO THE SOIL SURFACE.
- D. WHEN EROSION CONTROL BLANKETS TO ENHANCE PLANT GROWTH, APPLY FERTILIZER, LIME AND SEED PRIOR TO PLACING BLANKETS.
- E. ANCHOR EROSION CONTROL BLANKETS AS RECOMMEND BY THE EROSION CONTROL BLANKET MANUFACTURER.

3.2 SUBSURFACE DRAINAGE FABRIC

A. INLET PROTECTION

1. INSTALL SUBSURFACE DRAINAGE FABRIC BETWEEN THE GRATE AND FRAME OF INLET STRUCTURES THAT HAVE THE POTENTIAL TO RECEIVE CONSTRUCTION STORMWATER.

2. INSTALL SUBSURFACE DRAINAGE FABRIC AROUND SUBSURFACE DRAINAGE AS REQUIRED BY THE CONTRACT DRAWINGS.

3.3 ECO-- BERM

- A. INSTALL ECO-BERM AS INDICATED ON THE CONTRACT DRAWINGS AND PER THE LATEST REVISION OF THE LOCAL AND STATE GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL. WHEN TWO SECTIONS ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY SIX (6) INCHES.

- B. INLET STRUCTURES ARE TO BE SURROUNDED BY SILT FENCE AS INDICATED ON THE CONTRACT DRAWINGS.

- C. ALL STOCKPILED MATERIAL (TOPSOIL, BORROW, ETC.) SHALL HAVE A SILT FENCE CONSTRUCTED AROUND THE PERIMETER. TOPSOIL STOCKPILES LEFT IN PLACE FOR A PERIOD GREATER THAN FOURTEEN (14) DAYS SHALL BE TEMPORALLY SEEDED TO MINIMIZE EROSION OF THE SOIL CONSTITUENTS AND RELEASE OF SHOULD BE NUTRIENTS DURING WINDY CONDITIONS. STOCKPILED MATERIAL SHALL BE COVERED OR WATERED APPROPRIATELY TO PREVENT WIND EROSION.

3.4 SEPARATION FABRIC

- A. INSTALL AS INDICATED ON THE CONTRACT DRAWINGS.

3.5 CALCIUM CHLORIDE

- A. CONTROL DUST THROUGH THE APPLICATION OF CALCIUM CHLORIDE OR WATER. AN AVERAGE APPLICATION OF ONE POUND OF CALCIUM CHLORIDE PER SQUARE YARD OF EXPOSED AREA SHOULD BE CONSIDERED FOR EACH TREATMENT. THE EXACT NUMBER OF APPLICATIONS AND AMOUNT OF DUST CONTROL SHALL BE BASED UPON FIELD AND WEATHER CONDITIONS. IT SHALL BE SPREAD IN SUCH A MANNER AND WITH SUCH DEVICES SO THAT UNIFORM DISTRIBUTION IS ATTAINED. CALCIUM CHLORIDE SHALL NOT BE APPLIED WITHIN 50' OF A STREAM BANK OR WETLAND.

3.6 RESTORATION

- A. AS SOON AS CONSTRUCTION IS COMPLETED IN A GIVEN AREA, IT SHALL BE TOP-SOILED, SEEDED, FERTILIZED AND/OR MULCHED AS SPECIFIED ON THE DRAWINGS AND IN PART 2 OF THIS SPECIFICATION

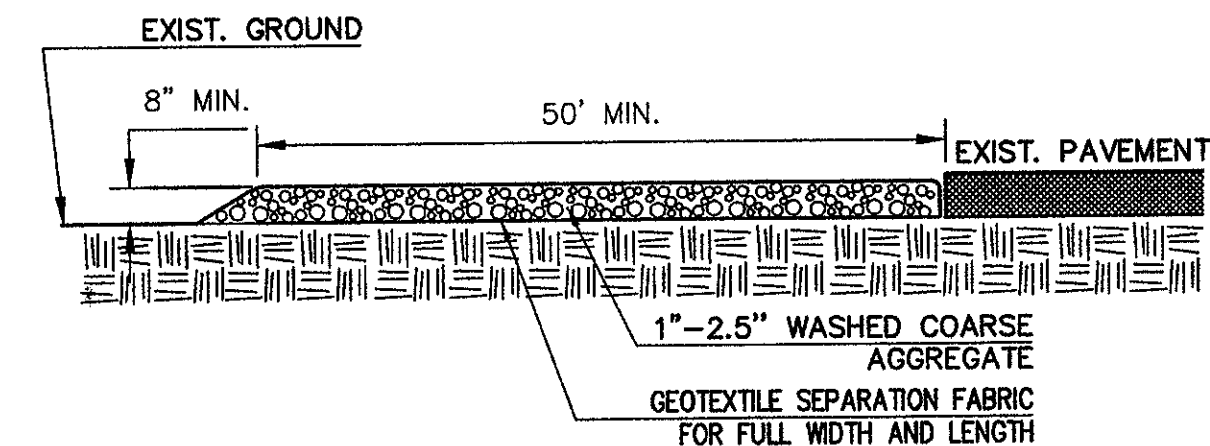
- B. THE RESPONSIBILITY FOR SATISFACTORY RESULTS ON THE WORK CARRIED OUT UNDER THIS ITEM RESTS ON THE CONTRACTOR REGARDLESS OF THE PRIOR APPROVAL OF MATERIALS AND METHODS ON THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN THE RESTORED AREA UNTIL SUCH TIME AS THE WORK IS ACCEPTED BY THE OWNER. MAINTENANCE SHALL BE INCLUDED ALL REGARDING, RESEEDING, REMULCHING ETC., WHICH MAY BE NECESSARY IN THE OPINION OF THE OWNER AND ENGINEER.

3.7 CONSTRUCTION ENTRANCE

- A. A STABILIZED PAD OF CRUSHED STONE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING THE CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF WAY OR STREET OR AS SHOWN ON THE DRAWINGS SHALL BE CONSTRUCTED FOR THE PURPOSE OF PREVENTING THE TRACKING OF SEDIMENTS ONTO PUBLIC RIGHTS-OF-WAY.

B. DESIGN CRITERIA

1. USE 1.5 TO 2.5 INCH STONE
2. USE 8" LAYER OF STONE
3. STONE PAD SHALL BE FULL WIDTH OF ENTRANCE
4. MINIMUM LENGTH SHALL BE 50', UNLESS OTHERWISE AUTHORIZED BY ENGINEER.

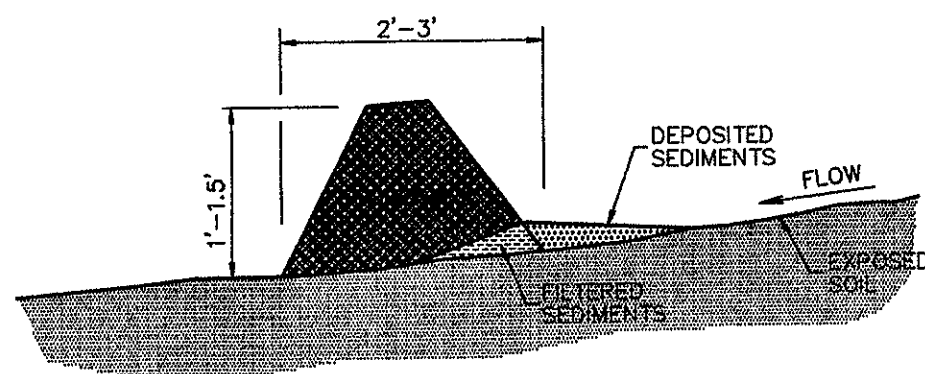


GENERAL NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE UPON A PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AREA STABILIZED WITH CRUSHED STONE; THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE / EXIT

1
C-5.0 NOT TO SCALE



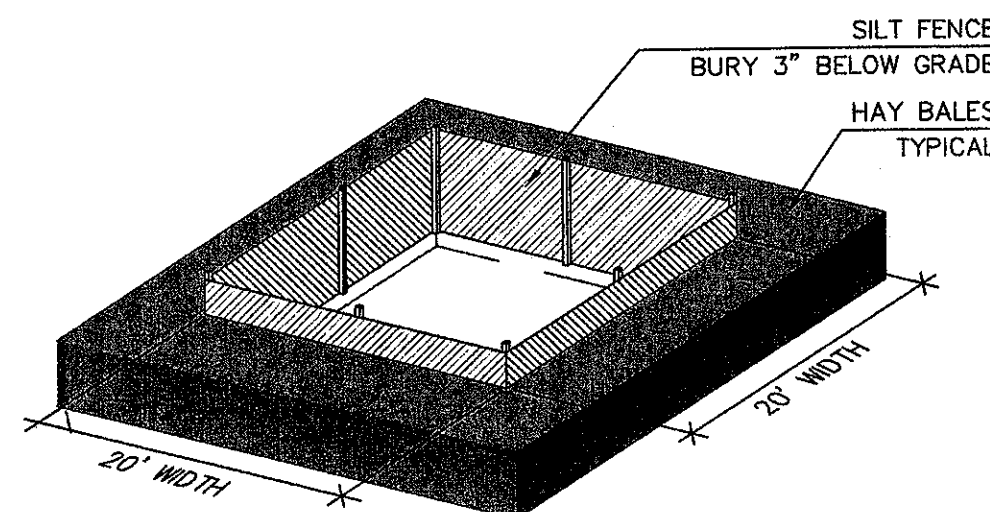
CROSS SECTION VIEW

GENERAL NOTES:

1. ECOBERM SHALL BE INSTALLED BY NORTHEAST ENVIRONMENTAL SOLUTIONS, AMHERST, MA, 413-258-0877, AND CONSTRUCTED USING FILTERING MATERIAL MEETING THE REXIUS SPECIFICATIONS FOR PARTICLE SIZE AND COMPOST QUALITY FOR PARTICLE SIZE AND COMPOST QUALITY.
2. ECOBERM SHOULD BE PLACED ALONG A LEVEL CONTOUR SO THAT IT WILL NOT CHANNEL RUNOFF AND CREATE
3. CONTRACTOR SHALL NOTIFY AMHERST WETLANDS ADMINISTRATOR.
4. ECOBERM SHALL BE INSPECTED ONCE DURING SPRING, SUMMER AND FALL SEASONS. SILT BUILD-UP SHALL BE REMOVED ONCE IT REACHES HALF THE HEIGHT OF THE ECOBERM.
5. OWNER SHALL PROVIDE SEASONAL MONITORING OF ECOBERM. WHICH SHALL INCLUDE REPORT LOGS AND PHOTOGRAPHS TO BE SUBMITTED TO THE CONSERVATION COMMISSION.

ECO BERM BARRIER

2
C-5.0 NOT TO SCALE



DEWATERING TRENCH DETAIL

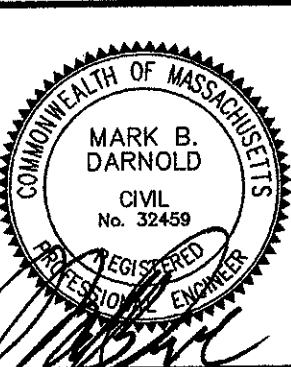
3
C-5.0 NOT TO SCALE

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55 UNIVERSITY DRIVE
AMHERST, MASSACHUSETTS

SITE PLAN APPROVAL
FOR CONSTRUCTION
DECEMBER 18, 2007

Record Owner/Applicant:

Sotorios Anamisis
7 Newton Street
Belchertown, Massachusetts
01007

Soil Erosion and Sediment Control Specification, Narrative and Details

NOI / Special Permit Application

Revisions

REVISED PER TOWN COMMENTS 07-31-07
REVISED PER TOWN COMMENTS 09-12-07
REVISED PER TOWN COMMENTS 11-19-07
REVISED PER TOWN COMMENTS 12-18-07

Date: July 11, 2007

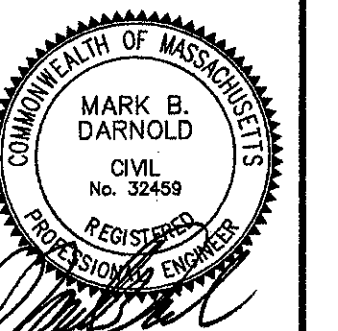
Scale: NONE

Drawn By: SJP

Checked By: MBD

Sheet Number

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The Hanger Pub & Grill-Parking Improvements

55 UNIVERSITY DRIVE
AMHERST, MASSACHUSETTS

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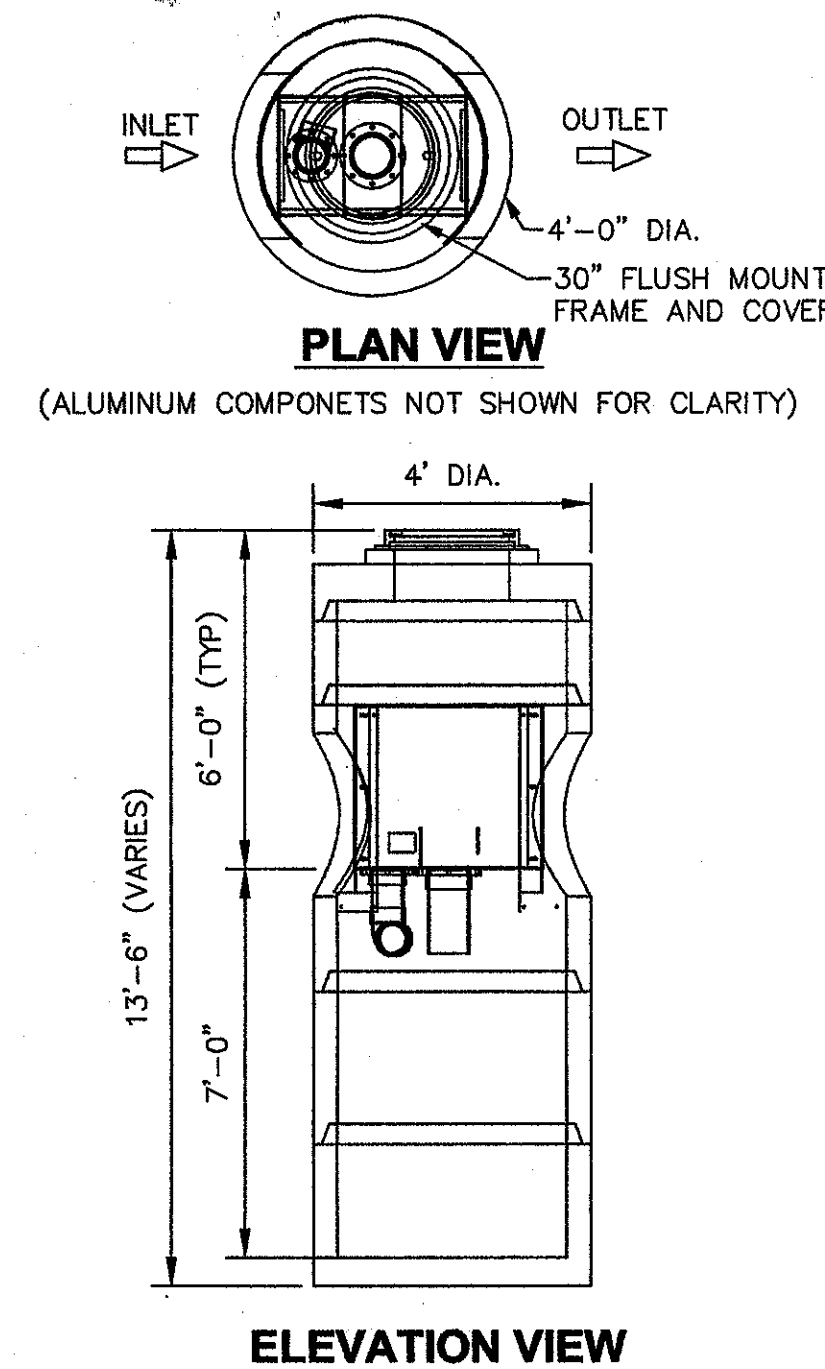
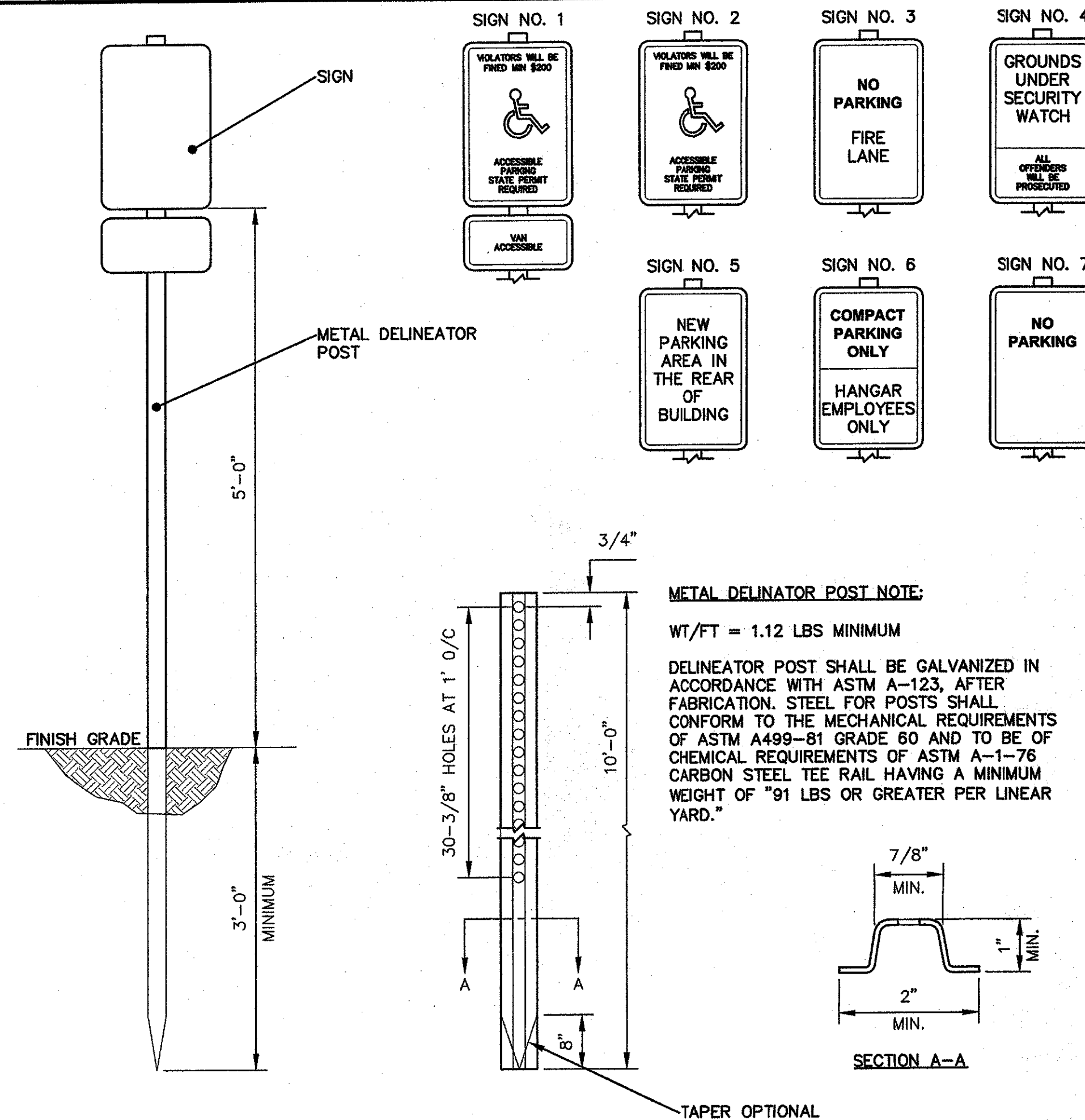
Site Details

NOI / Special Permit Application

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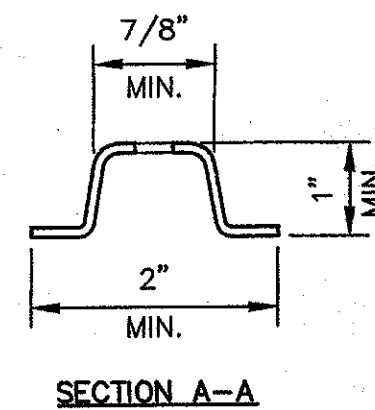
WQS01 NOTES:

- STORMWATER TREATMENT SYSTEM (WQS01) SHALL BE CONTECH MODEL VORTSENTRY HS48 G OR EQUAL.
PEAK TREATMENT CAPACITY: 1.20 CFS
SEDIMENT STORAGE: 0.9 CY
CHAMBER DIAMETER: 4 FT
- WQS01 SHALL BE CONTAINED IN ONE CIRCULAR STRUCTURE.
- WQS01 SHALL REMOVE 80% OF THE NET ANNUAL TSS LOADING BASED ON 240 MICRON SIZE PARTICLE.
- WQS01 INVERTS IN AND OUT SHALL BE AT THE SAME ELEVATION.
- WQS01 SHALL NOT BE COMPROMISED BY THE EFFECTS OF DOWNSTREAM TAILWATER.
- WQS01 SHALL HAVE NO INTERNAL COMPONENTS THAT SHALL OBSTRUCT MAINTENANCE ACCESS.
- INLET PIPE MUST PERPENDICULAR TO THE STRUCTURE.
- PIPE ORIENTATION MAY VARY; SEE SITE PLAN FOR SIZE AND LOCATION.
- MANHOLE FRAMES AND PERFORATED COVERS SUPPLIED WITH THE SYSTEM; CONTRACTOR IS RESPONSIBLE FOR RISERS AND INSTALLATION.
- CONTRACTOR SHALL PREPARE EXCAVATION AND PROVIDE EQUIPMENT FOR OFF-LOADING & SETTING AT TIME OF DELIVERY.
- 24" DIA. x 4"H MANHOLE FRAME AND PERFORATED COVER SHALL BE PROVIDED BY VORTECHNICS AND SHALL BE CAMPBELL CASTING #1009A, OR APPROVED EQUAL, CAST WITH THE VORTECHNICS LOGO.

METAL DELINEATOR POST NOTE:

WT/FT = 1.12 LBS MINIMUM

DELINEATOR POST SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A-123, AFTER FABRICATION. STEEL FOR POSTS SHALL CONFORM TO THE MECHANICAL REQUIREMENTS OF ASTM A499-81 GRADE 60 AND TO BE OF CHEMICAL REQUIREMENTS OF ASTM A-1-76 CARBON STEEL TEE RAIL HAVING A MINIMUM WEIGHT OF "91 LBS OR GREATER PER LINEAR YARD."



TAPER OPTIONAL

